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| Dry-bedded brick veneer ties tested                        | Dec 06 | 66-67   |     | Renovate or demolish   | Apr 08 | 33      |     |
| Drying in wall cavities                                    | Aug 10 | 44-45   |     | Research tackles condensation                                | Oct 13 | 63-64   |     |
|  |        |         |     | Residual service life database                               | Apr 10 | 37      |     |
|  |        |         |     | Residual service life project                                | Apr 11 | 60      |     |

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|---|--------|-------|---|--------|-------|--|
| Retrofitting for cosy walls                                       | Apr 12 | 70-71 | Masonry veneer cavity and subfloor separation     | Jun 05 | 28    |  |
| Retrofitting to resist extreme wind                               | Aug 08 | 80-81 | Mortar - Avoid coming unstuck!                    | Jun 09 | 22    |  |
| Roofing underlay and moisture                                     | Oct 10 | 84    | Plastered clay-brick veneers                      | Jun 05 | 60-61 |  |
| Safe as houses?   | Oct 13 | 82-83 | Proper detailing for veneer construction          | Jan 99 | 56    |  |
| Seismic bracing on hillsides                                      | Aug 11 | 70-71 | Seismic performance of 2-storey brick veneer      | Oct 09 | 52-53 |  |
| Seismic performance of 2-storey brick veneer                      | Oct 09 | 52-53 | Seismic performance of brick veneer               | Aug 08 | 82-83 |  |
| Seismic performance of brick veneer                               | Aug 08 | 82-83 | Selecting brick ties                              | Jan 99 | 10-11 |  |
| Sensors for early maintenance alert                               | Dec 08 | 50-51 | Shelf angles or veneer lintels with brick veneers | Dec 06 | 25    |  |
| Sharpening corrosion boundaries                                   | Jun 12 | 50-51 | Stains on brickwork                               | Jul 99 | 16    |  |
| Smarter ways to build homes                                       | Apr 13 | 70-71 | Success of brick veneer                           | Dec 04 | 36-37 |  |
| Solar heating for schools   | Oct 08 | 78-79 | Weather-tightness and brick veneer cavities       | Oct 08 | 22-23 |  |
| Solar walls in school in action                                   | Apr 09 | 68    |   |        |       |  |
| Solar water heating in NZ   | Apr 07 | 62-63 |   |        |       |  |
| Solar water heating systems                                       | Dec 09 | 62-63 |   |        |       |  |
| Specifying durability of materials                                | May 01 | 62-63 |   |        |       |  |
| Stainless steels different  | Aug 09 | 42-43 |   |        |       |  |
| Stopping kitchen fires  | Oct 09 | 82    |   |        |       |  |
| Stovetop fire protection in homes                                 | Aug 10 | 80-81 |   |        |       |  |
| Study reports online  | Jun 09 | 67    |   |        |       |  |
| Success story - BRANZFIRE   | Jun 05 | 76    |   |        |       |  |
| Success story - HEEPS   | Jun 05 | 75    |   |        |       |  |
| Success story - Insulation retrofit                               | Jun 05 | 74    |   |        |       |  |
| Summary of BRANZ expertise  | Jun 05 | 67-71 |   |        |       |  |
| Sun-smart materials   | Jun 14 | 52-54 | 142   |        |       |  |
| Supporting heavy windows  | Feb 11 | 72-73 |   |        |       |  |
| Technology transfer   | Mar 98 | 39    |   |        |       |  |
| Testing modified silicone and conventional sealants               | Apr 06 | 94-95 |   |        |       |  |
| The benefits of being linked in                                   | Oct 14 | 91-92 | 144   |        |       |  |
| The cost of choices   | Oct 14 | 82-83 | 144   |        |       |  |
| The science behind dry walls                                      | Oct 13 | 55-57 |   |        |       |  |
| Time tests PVC and polycarbonate sheets                           | Aug 08 | 44    |   |        |       |  |
| Time to change  | Jun 14 | 80-81 | 142   |        |       |  |
| Timeline for incipient fire development                           | Dec 08 | 76-77 |   |        |       |  |
| Turning solar for water heating                                   | Aug 08 | 58-59 |   |        |       |  |
| Use stainless steel with new timber treatments                    | Feb 07 | 68-70 |   |        |       |  |
| Using daylight - its only natural                                 | Aug 12 | 68-69 |   |        |       |  |
| Valuing higher performers   | Feb 15 | 65-66 | 146   |        |       |  |
| Ventilation and subfloors   | Aug 15 | 76-77 | 149   |        |       |  |
| Ventilation dries attic space                                     | Jun 15 | 78-79 | 148   |        |       |  |
| Ventilation drying in cavities                                    | Feb 09 | 44-45 |   |        |       |  |
| Vertical channel and other fire tests for exterior wall claddings | Dec 05 | 74-75 |   |        |       |  |
| Virtual research communities                                      | Dec 08 | 48    |   |        |       |  |
| Virtual research community  | Aug 09 | 64    |   |        |       |  |
| Wall and ceiling linings reaction to fire                         | Oct 07 | 88-89 |   |        |       |  |
| Wall underlays hold it together                                   | Dec 09 | 84-85 |   |        |       |  |
| Water use in Auckland homes                                       | Feb 09 | 66-67 |   |        |       |  |
| Water views   | Jun 15 | 82-83 | 148   |        |       |  |
| WAVE goodbye to leaks   | Apr 10 | 74    |   |        |       |  |
| Weathergrooves - do they work?                                    | Jun 15 | 80-81 | 148   |        |       |  |
| Weather-tightness research - cavity walls                         | Jun 06 | 54-55 |   |        |       |  |
| Weather-tightness research - drying rates in walls                | Aug 04 | 58-59 |   |        |       |  |
| Weather-tightness research - ventilation in cavities              | Aug 05 | 68-69 |   |        |       |  |
| Weather-tightness research at BRANZ                               | Jun 03 | 62    |   |        |       |  |
| WEEP highlights water use inefficiency                            | Apr 08 | 47-48 |   |        |       |  |
| What is sustainability?   | Dec 09 | 44    |   |        |       |  |
| Whats hot and whats not   | Dec 14 | 60-61 | 145   |        |       |  |
| Where is Aucklands water going?                                   | Apr 08 | 54    |   |        |       |  |
| Who cares about water and energy?                                 | Apr 13 | 53-54 |   |        |       |  |
| Wind effects on buildings   | Jun 10 | 76-77 |   |        |       |  |
| WUFI - modelling tool for NZ conditions                           | Aug 10 | 62-63 |   |        |       |  |

### BRANZ technical opinions/test reports

|  |        |    |  |
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| BRANZ roofing tests are go                           | Apr 10 | 71 |  |
| Differences between appraisals, opinions and reports | Jan 99 | 57 |  |
| What are opinions?                                   | Oct 97 | 22 |  |

### Bricks

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| Brick veneer claddings and moisture outlets                | Sep 98 | 32-34 |  |
| Brick veneer over habitable spaces                         | Dec 10 | 29-30 |  |
| Brick veneer stands the test                               | Dec 11 | 64-65 |  |
| Cracked brick walls  | Jul 99 | 14-15 |  |
| Detailing windows for brick veneer                         | Feb 06 | 16-17 |  |
| Dry-bedded brick veneer ties tested                        | Dec 06 | 66-67 |  |
| Earthquake performance requirements with Building Act 2004 | Apr 06 | 80-81 |  |
| Earthquake research on brick veneer                        | Aug 02 | 82    |  |
| Fixing exterior hot water appliances against veneer        | Oct 07 | 27-28 |  |
| Flashings for masonry veneer                               | Feb 05 | 22-23 |  |

### Builders

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| Ageing builders statistics                                      | Dec 05 | 29-30 |     |
| As safe as houses?  | Feb 04 | 54-55 |     |
| Builders - past, present and future                             | Dec 05 | 76    |     |
| Builders attaining excellence                                   | Apr 11 | 40    |     |
| Builders fighting the paper war                                 | Oct 08 | 48    |     |
| Builders for Housing New Zealand need to get it right           | Apr 06 | 62-63 |     |
| Builders liabilities and indemnity insurance                    | Dec 05 | 53    |     |
| Builders responsibilities                                       | Apr 04 | 16    |     |
| Careers - overview, apprentice to builder, architect, engineer, |        |       |     |
| building official plus profiles                                 | Oct 07 | 35-61 |     |
| Defining building excellence                                    | Feb 10 | 54-55 |     |
| Keep up, builders   | Aug 14 | 88    | 143 |
| Licensing builders  | Sep 99 | 64-65 |     |
| Licensing of building practitioners                             | Dec 03 | 34    |     |
| Licensing of building practitioners                             | Oct 04 | 46-47 |     |
| Lifting the industrys vision                                    | Jun 04 | 8-9   |     |
| Managing a small business                                       | Jun 04 | 56-57 |     |
| Managing risk is key  | Feb 10 | 57    |     |
| Minimising builders risk  | Aug 10 | 22    |     |
| Rising qualifications in ageing workforce                       | Oct 07 | 37-38 |     |
| Small building firms insights                                   | Aug 13 | 76-77 |     |
| Take precautions to protect your health                         | Jun 09 | 58-59 |     |
| Veicals and plant - hire or buy?                                | Jun 04 | 64-65 |     |
| Whats involved in a building business                           | Dec 05 | 36-37 |     |
| Who makes buildings?  | Apr 09 | 45-46 |     |

### Building Act see also New Zealand Building Code (NZBC)

|  |        |       |     |
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| Access for people with disabilities                          | Oct 05 | 60-61 |     |
| Building Act - transition from TAs to BCAs                   | Apr 05 | 52    |     |
| Building Act 1991 review                                     | Jul 99 | 38    |     |
| Building Act 2004 in force                                   | Oct 04 | 84-85 |     |
| Building Act changes TAs to BCAs                             | Apr 05 | 46-47 |     |
| Building Act considers life cycle costs                      | Aug 07 | 47-48 |     |
| Building Act contract changes                                | Feb 15 | 12    | 146 |
| Building Act submissions                                     | Jun 03 | 54    |     |
| Changes with Building Act                                    | Apr 05 | 44-45 |     |
| Fire design and building consents                            | Feb 08 | 58-59 |     |
| Get to know contract changes                                 | Jun 15 | 75-76 | 148 |
| Legal view of implied warranties                             | Aug 05 | 60-61 |     |
| Means of escape from fire                                    | Feb 08 | 56-57 |     |
| New Building Act + new building Department                   | Oct 04 | 43-45 |     |
| Product certification under the Building Act 2004            | Dec 05 | 57    |     |
| Quality first in Building Act reforms                        | Oct 10 | 75    |     |
| Sustainability and New Zealands Building Act                 | Apr 05 | 40-41 |     |
| The Building Bill  | Dec 03 | 30    |     |
| The heirarchy of Building Act, Building Code and regulations | Dec 05 | 48-49 |     |
| Warranties - protecting building consumers                   | Aug 05 | 58    |     |
| What is acceptable building work?                            | Aug 15 | 29-30 | 149 |

### Building Code of Australia (BCA 96)

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| Development and structure                   | Sep 98 | 69-70 |  |
| Energy efficiency push in Australia         | Mar 01 | 62-63 |  |
| Introduction                                | Jun 97 | 60-62 |  |
| Legal liability issues                      | Mar 98 | 57    |  |
| New Australian building code                | Jun 04 | 77    |  |
| Sustainability and Australias building code | Apr 05 | 38-39 |  |

### Building consents

|   |        |       |  |
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| Avoiding 10 building inspection pitfalls        | Apr 10 | 19    |  |
| Building Act - transition from TAs to BCAs      | Apr 05 | 52    |  |
| Building consent doesn't guarantee a CCC        | May 00 | 16-17 |  |
| Building consent or not for renovations         | Feb 10 | 23    |  |
| Building consents for unusual structures eg ger | Feb 11 | 60-61 |  |
| Changes with Building Act                       | Apr 05 | 44-45 |  |

|   |        |       |  |        |         |     |
|---|--------|-------|--|--------|---------|-----|
| Compliance paths - part 1   | Aug 09 | 29    | Quality not quantity documentation                           | Oct 04 | 18-19   |     |
| Compliance paths - part 2   | Oct 09 | 30-31 | Regulatory vs market philosophy                              | Dec 07 | 10      |     |
| Compliance with the HI calculation method                           | Aug 08 | 29-32 | Revised fire safety approved documents                       | May 01 | 19-20   |     |
| Consenting renovation work  | Feb 10 | 21-22 | Setting the standard for weathertightness                    | Dec 07 | 60-61   |     |
| Consents for provisional sum and prime cost items                   | Dec 05 | 56    | Smoke free areas and open areas                              | Dec 05 | 50-51   |     |
| Detailing of consent applications for claddings                     | Jun 06 | 48-49 | Standards and complying with the Code                        | Oct 08 | 47      |     |
| Differences between BRANZ appraisals/reports                        | Feb 05 | 70    | Streamlining building controls in Auckland                   | Dec 11 | 42      |     |
| Documentation needed for building consents                          | Dec 05 | 54-55 | Substitution - the cost of change                            | Oct 08 | 52-53   |     |
| E2/ASI BRANZ seminar questions                                      | Feb 05 | 77    | Sustainability and building regulations                      | Dec 03 | 42-43   |     |
| Engineering a post-earthquake recovery                              | Apr 04 | 62-64 | Sustainability in everyday building practice                 | Dec 05 | 52      |     |
| Excellent building consent applications                             | Feb 06 | 40-41 | Tackling quality control                                     | Oct 15 | 73-74   | 150 |
| Fire design and building consents                                   | Feb 08 | 58-59 | The Building Bill  | Dec 03 | 30      |     |
| Getting a building consent  | Jun 04 | 12-13 | The heirarchy of Building Act, Building Code and regulations | Dec 05 | 48-49   |     |
| Getting building consent applications accepted                      | Feb 10 | 58-59 | Understanding our building legislation                       | Feb 11 | 52      |     |
| Government moves for affordable houses                              | Jun 08 | 54    | Warranties - protecting building consumers                   | Aug 05 | 58      |     |
| HI information for building consents                                | Jun 08 | 22-23 | Woodburners design standards                                 | Oct 05 | 96      |     |
| Information required for submissions                                | Sep 98 | 12    |  |        |         |     |
| Online consents   | Aug 13 | 61    |  |        |         |     |
| Products and systems - fitness for purpose                          | Dec 04 | 56-57 |  |        |         |     |
| Renovations, is a consent needed?                                   | Jan 00 | 46-47 |  |        |         |     |
| What are TAs' responsibilities?                                     | Sep 99 | 14-15 |  |        |         |     |
| When a building consent is not required                             | Apr 11 | 20-21 |  |        |         |     |
| <b>Building controls see also New Zealand Building Code (NZBC)</b>  |        |       |  |        |         |     |
| Alternative solutions for compliance                                | Dec 04 | 26    |  |        |         |     |
| Apartment sizes - role of building regulations                      | Dec 03 | 40    |  |        |         |     |
| Architects call for more flexibility                                | Oct 08 | 50    |  |        |         |     |
| Assessing timber strength and stiffness                             | Feb 03 | 12-13 |  |        |         |     |
| Auckland super city building controls                               | Feb 11 | 58-59 |  |        |         |     |
| Australian/New Zealand loading Standard                             | Mar 00 | 54-55 |  |        |         |     |
| Background to building controls                                     | Dec 03 | 28-29 |  |        |         |     |
| BCA accreditation on track  | Apr 07 | 80-81 |  |        |         |     |
| BCA accreditation under way   | Feb 08 | 78    |  |        |         |     |
| BOINZ launches code of practice                                     | Dec 03 | 41    |  |        |         |     |
| BRANZ involvement in building controls                              | Dec 03 | 31    |  |        |         |     |
| Builders fighting the paper war                                     | Oct 08 | 48    |  |        |         |     |
| Building Act changes TAs to BCAs                                    | Apr 05 | 46-47 |  |        |         |     |
| Building blocks for building controls                               | Oct 08 | 45-46 |  |        |         |     |
| Building Code review  | Aug 06 | 98    |  |        |         |     |
| Building officials on building controls                             | Oct 08 | 51    |  |        |         |     |
| Building Practitioners Board appointed                              | Oct 05 | 95    |  |        |         |     |
| Change of use   | Aug 08 | 78-79 |  |        |         |     |
| Checking timber on site   | Jun 04 | 38-39 |  |        |         |     |
| Code Compliance Certificates - who's liable if something goes wrong | May 01 | 27-28 |  |        |         |     |
| Code minimum, good practice, best practice                          | Jul 01 | 23-25 |  |        |         |     |
| Compliance paths - part 1   | Aug 09 | 29    |  |        |         |     |
| Compliance paths - part 2   | Oct 09 | 30-31 |  |        |         |     |
| Compliance schedules under the microscope                           | Dec 10 | 58-59 |  |        |         |     |
| Consents and compliance vital in landscaping construction           | Oct 02 | 28-29 |  |        |         |     |
| Construction industry council (CIC) moves to stop building rot      | Dec 02 | 8     |  |        |         |     |
| Dealing with a leaky building                                       | Dec 07 | 49-50 |  |        |         |     |
| Determinations make the call  | Dec 10 | 66    |  |        |         |     |
| Differences between BRANZ appraisals/reports                        | Feb 05 | 70    |  |        |         |     |
| Early building legislation  | Feb 11 | 90-91 |  |        |         |     |
| Engineering a post-earthquake recovery                              | Apr 04 | 62-64 |  |        |         |     |
| Essential references for house designers (list)                     | Mar 01 | 16-17 |  |        |         |     |
| Firming licence class standards and assessment                      | Feb 06 | 66    |  |        |         |     |
| First steps in cutting red tape                                     | Oct 09 | 63-64 |  |        |         |     |
| Good documents provide tangible benefits                            | Dec 03 | 32-33 |  |        |         |     |
| Guide to weathertightness design principles                         | Jun 06 | 98    |  |        |         |     |
| Involving industry leads to practical standards                     | Feb 11 | 55-56 |  |        |         |     |
| Legal view of implied warranties                                    | Aug 05 | 60-61 |  |        |         |     |
| Licensed Building Practitioner scheme underway                      | Dec 07 | 74    |  |        |         |     |
| Licensing of building practitioners                                 | Jun 04 | 24    |  |        |         |     |
| Licensing of building practitioners                                 | Dec 03 | 34    |  |        |         |     |
| Like for like - what does it mean                                   | Apr 08 | 22-23 |  |        |         |     |
| LIMs and PIMs, what are they?                                       | Jul 00 | 20-21 |  |        |         |     |
| Looking to the future   | Aug 04 | 52-53 |  |        |         |     |
| Material performance for non-specific design                        | Apr 04 | 8-9   |  |        |         |     |
| Multiproof preapproved designs                                      | Feb 11 | 62    |  |        |         |     |
| NZS 3604 is being amended   | Jun 06 | 100   |  |        |         |     |
| Owners are responsible for buildings                                | Dec 03 | 35    |  |        |         |     |
| Producer statements - use & abuse                                   | Aug 02 | 26-27 |  |        |         |     |
| Producer statements - use & abuse                                   | Apr 03 | 16-17 |  |        |         |     |
| Product certification getting closer                                | Aug 08 | 37    |  |        |         |     |
| Progress addressing weathertightness                                | Dec 07 | 47-48 |  |        |         |     |
|   |        |       | <b>Building envelope</b>                                     |        |         |     |
|   |        |       | Avoiding risky behaviour                                     | Dec 14 | 65-67   | 145 |
|   |        |       | BRANZ weathertightness poster - complex building junctions   | Jun 04 | 30-31   |     |
|   |        |       | Building envelope of the future                              | Jan 01 | 28-29   |     |
|   |        |       | Detailing to protect against moisture damage                 | Mar 99 | 45-47   |     |
|   |        |       | E2/ASI BRANZ seminars  | Dec 04 | 62      |     |
|   |        |       | Getting the sequence right                                   | Apr 04 | 20-21   |     |
|   |        |       | Proprietary cladding systems                                 | Oct 09 | 46-47   |     |
|   |        |       | Seismic performance of 2-storey brick veneer                 | Oct 09 | 52-53   |     |
|   |        |       | Structural moisture performance                              | Aug 97 | 76      |     |
|   |        |       | Weathertightness tips for windy sites                        | Jun 10 | 16-18   |     |
|   |        |       | <b>Building history</b>                                      |        |         |     |
|   |        |       | Agents of change   | Jun 14 | 62-64   | 142 |
|   |        |       | Bricks   | Feb 06 | 80      |     |
|   |        |       | Brushes with paint   | Aug 12 | 86-87   |     |
|   |        |       | Building in a new land                                       | Oct 11 | 106-107 |     |
|   |        |       | Buildings of stone   | Apr 09 | 86-87   |     |
|   |        |       | Cementing history  | Jun 08 | 86-87   |     |
|   |        |       | Comfort in winter - solid fuels                              | Feb 13 | 92-93   |     |
|   |        |       | Concrete: a strong tradition                                 | Aug 08 | 98-99   |     |
|   |        |       | Corrugated iron  | Aug 06 | 118     |     |
|   |        |       | Development of thermal insulation - part 1                   | Apr 10 | 90-91   |     |
|   |        |       | Development of thermal insulation part 2                     | Jun 10 | 94-95   |     |
|   |        |       | Early building legislation                                   | Feb 11 | 90-91   |     |
|   |        |       | Early forestry   | Aug 09 | 86-87   |     |
|   |        |       | Earth buildings history                                      | Oct 06 | 110-111 |     |
|   |        |       | Electric hot water invention                                 | Jun 06 | 110     |     |
|   |        |       | Electric lamps   | Feb 08 | 102-103 |     |
|   |        |       | Elevators - going up?  | Feb 09 | 90-91   |     |
|   |        |       | Flickering lamps - from beeswax to gas                       | Dec 07 | 94-95   |     |
|   |        |       | From ice to refrigerators                                    | Apr 11 | 86-87   |     |
|   |        |       | History of toilets   | Dec 06 | 86-87   |     |
|   |        |       | History of window glass                                      | Jun 07 | 118-119 |     |
|   |        |       | Hot water the old-fashioned way                              | Apr 07 | 94-95   |     |
|   |        |       | House assembly - prefabrication and factory manufacture      | Oct 08 | 94-95   |     |
|   |        |       | House moving   | Dec 08 | 94-95   |     |
|   |        |       | Iron before steel  | Oct 10 | 98-99   |     |
|   |        |       | Learning to build  | Jun 11 | 88-89   |     |
|   |        |       | Learning to engineer   | Aug 11 | 90-91   |     |
|   |        |       | Mastering meters   | Dec 12 | 84-85   |     |
|   |        |       | Measuring space and time                                     | Feb 10 | 86-87   |     |
|   |        |       | Nails history  | Aug 07 | 86-87   |     |
|   |        |       | On the block   | Dec 11 | 86-87   |     |
|   |        |       | Plastered brick  | Apr 06 | 100     |     |
|   |        |       | Precast becomes popular                                      | Feb 12 | 86-87   |     |
|   |        |       | Public conveniences / toilets                                | Feb 07 | 94-95   |     |
|   |        |       | Raupo houses   | Oct 05 | 103     |     |
|   |        |       | Resourceful timber   | Oct 12 | 88-89   |     |
|   |        |       | Sanitation and surveillance safeguarded NZ settlers health   | Feb 07 | 38-39   |     |
|   |        |       | Slab and logs houses   | Dec 05 | 80      |     |
|   |        |       | Stable building foundations                                  | Jun 09 | 86-87   |     |
|   |        |       | Steel framing in New Zealand                                 | Dec 10 | 90-91   |     |
|   |        |       | The rise of pine   | Dec 09 | 98-99   |     |
|   |        |       | Thermal insulation   | Oct 07 | 110-111 |     |
|   |        |       | Timber framing - rapid and reliable                          | Aug 10 | 98-99   |     |
|   |        |       | Training for building  | Jun 12 | 86-87   |     |
|   |        |       | Tree to timber   | Oct 09 | 98-99   |     |
|   |        |       | Wall linings   | Apr 08 | 86-87   |     |
|   |        |       | What keeps the walls and roof up?                            | Apr 13 | 88-89   |     |

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|---|--------|-------|--|--------|-------|-----|
| Works on paper  | Apr 12 | 86-87 | Business as usual at uni                           | Oct 11 | 60-61 |     |
| Years of interesting innovation                                 | Jun 10 | 58-60 | Canterbury rebuild - it is a resources issue       | Jun 12 | 72-73 |     |
| <b>Building Industry Authority (BIA)</b>                        |        |       | Canterbury workloads                               | Aug 11 | 34-35 |     |
| CODEMARK (BIA accreditation)                                    | Mar 99 | 51    | Central city recovery                              | Oct 11 | 66    |     |
| Global building model   | Jul 99 | 49-50 | CERA recovery strategy                             | Oct 11 | 64    |     |
| Role in educating the building industry                         | Mar 98 | 35-36 | Chance to build back smarter                       | Dec 13 | 60-61 |     |
| Will the new Building Act improve the industry?                 | Aug 03 | 72    | Check your sprinklers                              | Oct 12 | 46-47 |     |
| <b>Building inspectors/officials</b>                            |        |       | Christchurch rebuild                               | Oct 11 | 34-39 |     |
| BCA accreditation under way                                     | Feb 08 | 78    | Cities in flux                                     | Dec 13 | 46-49 |     |
| Becoming a building official                                    | Dec 05 | 43    | Creating a vibrant heart                           | Feb 13 | 8     |     |
| Building inspectors and the need for more training              | Oct 05 | 16-17 | Did masonry veneer stand up                        | Aug 12 | 74-75 |     |
| Building officials licences                                     | Dec 06 | 40-41 | EQ + Fire = PFP                                    | Feb 14 | 64-65 |     |
| Building officials on building controls                         | Oct 08 | 51    | Fire protection                                    | Feb 13 | 62-63 |     |
| Checking timber on site   | Jun 04 | 38-39 | Five drivers                                       | Apr 14 | 64-65 | 141 |
| Clerk of Works  | Feb 04 | 52-53 | Fix up, warm up                                    | Oct 12 | 82    |     |
| National qualification for inspectors                           | Mar 98 | 31    | Foundation repairs and new builds                  | Aug 12 | 52-53 |     |
| Substitution of building products, dangers                      | Apr 97 | 14-15 | Fresh thinking                                     | Aug 14 | 42-45 | 143 |
| Substitution, bracing ratings                                   | Apr 97 | 19-20 | Give them strength                                 | Feb 14 | 50-52 |     |
| <b>Building Research News</b>                                   |        |       | Greening the Garden City                           | Jun 13 | 58-59 |     |
| Building Research investment in 2006/7                          | Jun 06 | 92-93 | Guiding house repairs and rebuilds                 | Feb 13 | 47-48 |     |
| Building Research on the move                                   | Oct 06 | 77    | Have Canterbury houses gone soft?                  | Dec 11 | 66    |     |
| Building Research review as CEO, Dr Allan Nichols, retires      | Oct 05 | 89    | Helping Christchurch build back better             | Oct 11 | 62-63 |     |
| Changes at Building Research and BRANZ                          | Aug 07 | 72    | Home repairs                                       | Feb 13 | 56-57 |     |
| New CEO for Building Research - Dr Sunil Vather                 | Aug 05 | 81    | Hotel Grand Chancellor demolition                  | Oct 11 | 56    |     |
| William (Bill) Ash Obituary                                     | Jun 07 | 94    | How did houses perform?                            | Feb 13 | 44-45 |     |
| <b>Building services see also Plumbing</b>                      |        |       | Issues facing subcontractors                       | Oct 15 | 82-83 | 150 |
| Building services operating costs                               | Jan 01 | 8-9   | Legislation to facilitate recovery                 | Oct 11 | 46    |     |
| Building Services Research and Information Association (BSRIA)  | Oct 97 | 40    | Lessons in self-managing a rebuild                 | Aug 14 | 82-83 | 143 |
| Controlling noise from building services                        | Jul 99 | 61-63 | Let the sun shine on Christchurch                  | Feb 13 | 68-69 |     |
| Design and integration of building services                     | Aug 03 | 40-42 | Low-down on earthquake performance                 | Aug 13 | 62-64 |     |
| Designing buildings for the users                               | Feb 97 | 25-26 | Massive demolition site                            | Oct 11 | 54    |     |
| Designing good seminar venues                                   | Aug 03 | 44-46 | Moving to low damage design                        | Feb 13 | 50-51 |     |
| Ensuring building users understand them (UK research)           | Jun 97 | 56-57 | On good ground                                     | Aug 14 | 53-54 | 143 |
| High cost of building services corrosion                        | Apr 11 | 52-53 | Opportunity knocks                                 | Aug 12 | 54-55 |     |
| Hot water safety  | Jan 01 | 26    | Opportunity to upgrade                             | Feb 13 | 73-74 |     |
| How will earthquakes affect building services? (BRANZ research) | May 99 | 50-52 | Peak performance                                   | Feb 13 | 66-67 |     |
| International research  | Jan 01 | 45-46 | Renewal for Christchurch                           | Feb 15 | 42-45 | 146 |
| Revised NZS 4219 for building services                          | Apr 09 | 60-61 | Rule changes                                       | Feb 13 | 46    |     |
| Seismic restraint   | Jan 01 | 35-38 | Steely performers                                  | Feb 13 | 53-54 |     |
| Seismic restraint of building services                          | Aug 15 | 35-36 | Suppliers prepared for the hard graft ahead        | Oct 11 | 44    |     |
| Service tunnels solution for Tauranga Hospital                  | Jun 06 | 16    | Temporary villages                                 | Oct 11 | 58    |     |
| Sewers and earthquake safety                                    | Jan 01 | 39-40 | Ten thoughts for Christchurch                      | Oct 11 | 68-69 |     |
| Standard for seismic restraint, draft                           | Jan 01 | 35-38 | The road to recovery                               | Dec 13 | 57-58 |     |
| Suspended ceilings  | Jun 15 | 58-50 | There is value in building waste                   | Feb 13 | 70-71 |     |
| <b>Building warrant of fitness</b>                              |        |       | Unreinforced clay brick masonry buildings          | Oct 11 | 50-52 |     |
| Design and integration of building services                     | Aug 03 | 40-42 | Where are the skills coming from?                  | Oct 11 | 42-43 |     |
| What is it?   | Sep 99 | 41-42 | Where is the action in Canterbury                  | Feb 13 | 64-65 |     |
| <b>Building wraps/underlays</b>                                 |        |       | Working safe a priority                            | Aug 14 | 70-71 | 143 |
| Absorbent or non-absorbent wraps?                               | Jun 03 | 18    | <b>Case study</b>                                  |        |       |     |
| Drained and vented cavities                                     | Dec 04 | 32-33 | Airport energy saving takes off                    | Feb 15 | 77-78 | 146 |
| Installation of roofing underlay                                | Jun 07 | 18-19 | Auckland Museums new atrium                        | Oct 05 | 18-20 |     |
| Reassessing performance requirements of wraps                   | Sep 00 | 39-40 | Award for innovation at Hanmer Springs hotpools    | Feb 06 | 14-15 |     |
| Research into durability - it's a wrap                          | Jan 02 | 54-55 | Balcony - saved from a rotten fall                 | Jan 02 | 10-11 |     |
| Retrofitting flexible wall underlay                             | Jun 10 | 24    | Banking on green                                   | Feb 15 | 67-68 | 146 |
| Rigid and non-rigid wall underlays                              | Jun 04 | 17    | Barrier/balustrade fashions                        | Oct 02 | 8-9   |     |
| Stucco - detailing the options                                  | Aug 03 | 16    | Bhutanese traditional building techniques          | Oct 05 | 84-86 |     |
| Underlays - new terminology                                     | Dec 02 | 22-24 | Building decks below interior floor levels         | Sep 00 | 12-13 |     |
| Underwear for claddings   | Apr 04 | 48-50 | Building houses in Mexico                          | Feb 07 | 12-13 |     |
| Vapour barriers and underlays                                   | Apr 07 | 16-18 | Building in Bhutan                                 | Feb 05 | 12-14 |     |
| Wall underlays hold it together                                 | Dec 09 | 84-85 | Building sites and floor levels                    | May 99 | 9-10  |     |
| Wind and air barriers   | Aug 08 | 17    | Cascading problems - more leaks roof/wall junction | Aug 02 | 8-10  |     |
| Wind barriers and specific design                               | Aug 03 | 13    | Cedar shingles                                     | Jun 02 | 9-10  |     |
| <b>Canterbury earthquakes</b>                                   |        |       | Christchurch South Library                         | Feb 04 | 10-11 |     |
| A quick plasters often not enough                               | Aug 12 | 56    | Christchurch Womens Hospital                       | Feb 07 | 48-50 |     |
| A united stand  | Feb 13 | 87    | Cladding substitution leads to dry rot             | Sep 99 | 10-11 |     |
| Army of tradespeople support recovery                           | Oct 11 | 58    | Condensation on windows                            | Apr 03 | 18    |     |
| Backing energy efficiency                                       | Apr 13 | 43-44 | Conservation House retrofit                        | Jun 07 | 52-53 |     |
| BRANZ busy in Christchurch                                      | Oct 11 | 47    | Construction waste reduction                       | Apr 09 | 72-73 |     |
| Brick veneer stands the test                                    | Dec 11 | 64-65 | Cracked brick walls                                | Jul 99 | 14-15 |     |
| Building costs and Canterbury earthquakes                       | Oct 11 | 40    | Deck flashings                                     | Mar 01 | 9     |     |
|   |        |       | Deflecting the wind                                | May 00 | 14    |     |
|   |        |       | Developing great people for your business          | Aug 05 | 14-15 |     |
|   |        |       | Discolouring on linings, causes and solutions      | Mar 00 | 12-13 |     |
|   |        |       | Examples of going green down south                 | Jun 09 | 72-73 |     |
|   |        |       | Exploding hot water cylinder                       | Jan 01 | 12-13 |     |
|   |        |       | Flashings and tile roofs                           | Sep 98 | 8-9   |     |

|  |        |       |  |        |       |
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| Fletcher Construction breaks new ground at Wynyard Quarter   | Aug 11 | 49    | Purpose of a cladding cavity                                 | Apr 04 | 38-40 |
| Getting cozy in Queenstown                                   | Apr 09 | 70-71 | Rain screen on dry hills house                               | Feb 03 | 26-27 |
| Gores multisports complex                                    | Jun 04 | 22-23 | R-values and cavities  | Aug 04 | 22-23 |
| Green roof for University of Auckland                        | Dec 06 | 14-15 | Structurally fixing cavity battens                           | Feb 05 | 20-21 |
| Hamilton cathedral redevelopment                             | Jun 09 | 46-47 | Ventilation drying in cavities                               | Feb 09 | 44-45 |
| Homeowners perspective on building industry                  | Aug 03 | 8-9   | Ventilation of wall cavities research                        | Dec 06 | 68    |
| How not to install a roof                                    | Nov 98 | 8-9   | Vermin in buildings  | Feb 03 | 21-23 |
| Ignore clearances at your peril                              | Mar 01 | 18-19 | WANZ WIZ - Drained cavity and openings                       | Apr 09 | 19-20 |
| Inner-city church maintenance                                | Apr 02 | 16-17 | Weathertight window in 10 steps                              | Aug 05 | 30-31 |
| Innovative solutions - beach house                           | Jun 02 | 26-27 | Weathertightness and brick veneer cavities                   | Oct 08 | 22-23 |
| Installing correct downlights and extractor fans             | Nov 99 | 10-11 | Weathertightness basics - small construction details         | Oct 10 | 19-20 |
| Installing PVC pipe  | Mar 00 | 10-11 | Weathertightness research - cavity walls                     | Jun 06 | 54-55 |
| Landcare Research new premises                               | Oct 03 | 6-7   | Window head flashing with bevelback weatherboards and cavity | Aug 07 | 26-27 |
| Leaking windows  | Jun 02 | 12-14 |  |        |       |
| Liquid-applied membranes in wet areas                        | Dec 02 | 12-14 |  |        |       |
| Maori hapu housing in Turangi                                | Apr 06 | 66-67 |  |        |       |
| Masonry veneer   | Nov 01 | 10-11 |  |        |       |
| Meridian Building flagship for sustainability                | Feb 09 | 30-31 |  |        |       |
| Mongolian gers   | Dec 05 | 10-12 |  |        |       |
| Mould  | Jul 00 | 10-11 |  |        |       |
| Northern Busway partnership a winning formula                | Apr 09 | 28-29 |  |        |       |
| Old buildings in Samarkand, Uzbekistan                       | Apr 06 | 14-15 |  |        |       |
| Passive design strategies                                    | Oct 08 | 84-85 |  |        |       |
| Pathfinder 2 - Northern Gateway Alliance, alliance model     | Dec 08 | 36-37 |  |        |       |
| Pathfinder 3 - Palmerston North Shopping Plaza, 5D modelling | Dec 08 | 41    |  |        |       |
| Performance monitoring, Hamilton house                       | Aug 09 | 72-73 |  |        |       |
| Planning the new sustainable house                           | Aug 08 | 86-87 |  |        |       |
| Plateau Hut, Mt Cook (best practice)                         | Oct 05 | 26-27 |  |        |       |
| Polystyrene mouldings  | Jan 02 | 18-19 |  |        |       |
| Pre-purchase inspections                                     | Nov 00 | 10-11 |  |        |       |
| Producer statements - use & abuse                            | Apr 03 | 16-17 |  |        |       |
| Protecting glass from corrosion                              | Jan 99 | 14-15 |  |        |       |
| Reducing on-site energy use                                  | Jun 09 | 74-75 |  |        |       |
| Religious buildings in Bhutan                                | Jun 05 | 14-17 |  |        |       |
| Scorching from halogen lighting                              | May 98 | 10    |  |        |       |
| Service tunnels solution for Tauranga Hospital               | Jun 06 | 16    |  |        |       |
| Showers and leaks around sealants                            | Jan 00 | 16    |  |        |       |
| Skybox apartment, Wellington                                 | Aug 06 | 62-64 |  |        |       |
| Smart Meridian building for Wellington waterfront            | Jun 07 | 56-58 |  |        |       |
| Soft rot in timber   | Jul 98 | 11-13 |  |        |       |
| Solar water heater from 1979                                 | Apr 07 | 12-13 |  |        |       |
| Stonehenge Aotearoa  | Jun 05 | 10-11 |  |        |       |
| Stucco corrosion from high-chloride sands                    | Mar 98 | 11-12 |  |        |       |
| Subfloor moisture and damp ceilings                          | Mar 99 | 10    |  |        |       |
| Sump grate - costly results of rushing                       | Nov 01 | 11    |  |        |       |
| Supporting reinforcing                                       | Jul 00 | 12-13 |  |        |       |
| The most important thing is people - UCOL Wanganui           | Aug 09 | 32-33 |  |        |       |
| Tramping hut lesson (internal moisture)                      | Feb 03 | 16-17 |  |        |       |
| Trash Palace claddings, Porirua                              | Jun 06 | 42-43 |  |        |       |
| Venice under construction                                    | Oct 04 | 20    |  |        |       |
| Waste diversion during deconstruction                        | Jun 08 | 72-74 |  |        |       |
| Weathertightness problems in 14-year-old home                | Aug 03 | 8-9   |  |        |       |
| Weathertightness problems in 14-year-old home                | Apr 04 | 12-13 |  |        |       |
| Weathertightness problems in a 14 year old home              | Dec 02 | 18-19 |  |        |       |
| When repairs go bad  | May 01 | 9-10  |  |        |       |
| Window woes - how a simple job can go wrong                  | Dec 02 | 10-11 |  |        |       |
| Windows and leaks  | May 00 | 12-13 |  |        |       |

### Claddings (external) see also Design, Weathertightness

|   |        |       |
|---|--------|-------|
| Absorbent or non-absorbent wraps?                   | Jun 03 | 18    |
| Acrylic paint                                       | May 98 | 20    |
| Air seals and windows                               | Jun 05 | 24    |
| Alternatives to timber framing                      | Nov 99 | 28-32 |
| At the crossroads                                   | Oct 12 | 35-36 |
| Barriers on exposed sites                           | Jul 00 | 17-19 |
| BRANZ weathertightness poster - penetrations        | Apr 04 | 24-25 |
| Brick veneer claddings and moisture outlets         | Sep 98 | 32-34 |
| Bricks, masonry veneer and proper detailing         | Jan 99 | 56    |
| Building to keep the weather out - the 4Ds          | Oct 03 | 16    |
| Caring for timber weatherboards                     | Jun 11 | 15-16 |
| CINZ forum  | Feb 03 | 9     |
| Cladding defects study                              | Sep 01 | 8     |
| Cladding design                                     | Oct 12 | 60-62 |
| Cladding fashions                                   | Nov 99 | 69-70 |
| Cladding junctions with a difference                | Apr 11 | 23-24 |
| Cladding life cycle calculator                      | Oct 09 | 48    |
| Cladding substitution leads to dry rot              | Sep 99 | 10-11 |
| Cladding types in new buildings                     | Dec 08 | 55-56 |
| Cladding types in use today                         | Aug 02 | 6     |
| Claddings Institute forum and weathertightness      | Jul 00 | 58-59 |
| Claddings Institute of New Zealand (CINZ)           | Sep 98 | 25-26 |
| Coatings for claddings                              | Jun 05 | 56-58 |
| Coatings for claddings                              | Jun 07 | 70    |
| Coatings on hardboard claddings                     | Jul 99 | 81    |
| Compatibility of flashings and claddings            | Jun 05 | 52-54 |
| Compliance paths for claddings                      | Apr 05 | 16    |
| Considerations when choosing claddings              | Jun 06 | 38-39 |
| Control joints in plaster claddings                 | Dec 13 | 40-42 |
| Copper claddings                                    | Oct 02 | 22-23 |
| Cost and sustainability in cladding selection       | Apr 07 | 25    |
| Deeper than normal cavities                         | Feb 06 | 18-19 |
| Design for good daylight                            | Jun 05 | 42-44 |
| Designing claddings that comply                     | Jun 06 | 40-41 |
| Detailing cladding penetrations                     | Jun 15 | 33-34 |
| Detailing of consent applications for claddings     | Jun 06 | 48-49 |
| Detailing penetrations in profiled claddings        | Jun 05 | 48-49 |
| Differences between details in E2/AS1 and BRANZ     |        |       |
| Weathertight Solutions                              | Dec 06 | 22-23 |
| Drained and vented cavities                         | Jun 05 | 46-47 |
| Drained and vented cavities                         | Dec 04 | 32-33 |
| Drained and ventilated cavities                     | Jul 01 | 42-43 |
| Drained and ventilated cavities                     | Aug 02 | 52    |
| Drying rates in walls                               | Jun 07 | 66-67 |
| E2/AS1 BRANZ seminars                               | Dec 04 | 62    |
| Earthquake performance - tilt-up walls              | Aug 03 | 54-55 |
| Effect of roof design on maintenance                | May 01 | 12-13 |
| EIFS claddings                                      | Aug 04 | 20-21 |
| EIFSs and misconceptions                            | Sep 98 | 40    |
| Exposed roof overhangs                              | Aug 02 | 16-17 |
| Fascia or barge board construction                  | Aug 09 | 18    |
| Fibre-cement board                                  | May 98 | 23    |
| Fibre-cement board                                  | May 98 | 54-56 |
| Fibre-cement board                                  | Sep 98 | 28-30 |
| Finishing stucco to ground                          | Aug 04 | 18    |
| Fire safety requirements of exterior wall claddings | Aug 97 | 28-30 |
| Fixing the bottom board of bevelback weatherboards  | Dec 05 | 20-21 |
| Flashing the hip ridge junction                     | Aug 03 | 12    |
| Flashings for masonry veneer                        | Feb 05 | 22-23 |
| Garages   | Apr 97 | 24    |
| Getting the sequence right                          | Apr 04 | 20-21 |
| Glass in public buildings                           | Aug 03 | 48-49 |

### Cavity wall construction

|   |        |       |     |
|---|--------|-------|-----|
| Cavity walls  | Jun 03 | 56-61 |     |
| Closing the top of ventilated cavities              | Feb 14 | 37-38 |     |
| Deeper than normal cavities                         | Feb 06 | 18-19 |     |
| Detailing penetrations in profiled claddings        | Jun 05 | 48-49 |     |
| Do walls actually breathe?                          | Dec 12 | 58-59 |     |
| Drained and vented cavities                         | Jun 05 | 46-47 |     |
| Drained and vented cavities                         | Dec 04 | 32-33 |     |
| Drained cavity basics                               | Feb 09 | 19-20 |     |
| Drained cavity window installation                  | Jun 12 | 16-17 |     |
| E2/AS1 - Drained cavity and openings                | Apr 09 | 15-17 |     |
| E2/AS1 amendments for drained and vented cavities   | Jun 06 | 28    |     |
| Fixing the bottom board of bevelback weatherboards  | Dec 05 | 20-21 |     |
| Getting closure                                     | Oct 14 | 32-33 | 144 |
| H3.1 cavity battens                                 | Dec 14 | 34    | 145 |
| Inter-tenancy fire separation for cladding cavities | Apr 04 | 14    |     |
| Keeping framing spaces dry                          | Jun 09 | 26-27 |     |
| Maintaining the cavity gap                          | Dec 03 | 16-17 |     |
| Managing air-pressure differences                   | Aug 04 | 14-15 |     |

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|---|--------|-------|-----|--|--------|---------|-----|
| Graffiti, tagging and claddings                             | Jun 07 | 72-73 |     | Vapour barriers and underlays                            | Apr 07 | 16-18   |     |
| Ground clearance and waterproofing for masonry construction | Jun 04 | 16    |     | Ventilation of wall cavities research                    | Dec 06 | 68      |     |
| Ground clearances for wall claddings                        | Mar 01 | 18-19 |     | Vertical board cladding                                  | Jun 04 | 18-19   |     |
| Ground clearances/waterproofing - masonry construction      | Aug 02 | 14-15 |     | Victoria University - A façade to stand the test of time | Apr 10 | 26-27   |     |
| Harditex™ and technical information                         | May 98 | 23    |     | Wall cladding appraisal                                  | Jun 07 | 76-77   |     |
| Horizontal and vertical iron wall cladding details          | Oct 03 | 8-9   |     | Wall claddings in new housing                            | Apr 04 | 10-11   |     |
| Horizontal cladding joints                                  | Aug 04 | 12-13 |     | WANZ 'WIS' system for windows                            | Aug 02 | 56-57   |     |
| Horizontal corrugated iron wall cladding detailing          | Sep 98 | 14-15 |     | Weatherboards - fixing requirements                      | Dec 04 | 34      |     |
| Horizontal corrugated iron wall cladding detailing          | Nov 01 | 14-15 |     | Weatherboards are back in business                       | Oct 12 | 66-67   |     |
| Horizontal profiled metal as a cladding                     | Apr 05 | 28-29 |     | Weathergrooves to prevent water entry                    | Oct 97 | 20      |     |
| House claddings in NZ and Australia                         | Jun 05 | 32-33 |     | Weathertight window in 10 steps                          | Aug 05 | 30-31   |     |
| Ignore clearances at your peril                             | Mar 01 | 18-19 |     | Weathertightness research - cavity walls                 | Jun 06 | 54-55   |     |
| Indoor outdoor flow and cladding clearance levels           | Oct 06 | 27-29 |     | Weathertightness research - ventilation in cavities      | Aug 05 | 68-69   |     |
| Installing a window with no cavity                          | Oct 05 | 32-33 |     | Weathertightness risk matrix                             | Jun 05 | 38-41   |     |
| Installing bevel-back weatherboards                         | Oct 15 | 31-32 | 150 | Weathertightness tips for windy sites                    | Jun 10 | 16-18   |     |
| Insulating concrete-clad houses for thermal comfort         | Dec 02 | 44-46 |     | What keeps the walls and roof up?                        | Apr 13 | 88-89   |     |
| Junctions and openings, keeping water out                   | Sep 00 | 44-50 |     | Whats hot and whats not                                  | Dec 14 | 60-61   | 145 |
| Keeping single-skin masonry walls dry                       | Apr 05 | 24-25 |     | Whats up and down in building cladding?                  | Oct 12 | 64-65   |     |
| Lessons from North America, leaking buildings               | Jan 01 | 18-19 |     | Wind barriers and specific design                        | Aug 03 | 13      |     |
| Life cycle costs  | Apr 97 | 13    |     | Wind barriers and weatherboards                          | Dec 04 | 34      |     |
| Maintaining the cavity gap                                  | Dec 03 | 16-17 |     | Wind, watertightness and air pressure                    | Sep 98 | 43-44   |     |
| Making architectural surfaces from concrete slab            | Feb 06 | 44-46 |     | Window jambs   | Feb 04 | 20-21   |     |
| Metals corroding others                                     | Jan 01 | 58-62 |     |  |        |         |     |
| Moisture content of timber framing                          | May 98 | 23    |     | <b>Clearance to ground see Ground clearance</b>          |        |         |     |
| More on head flashings                                      | Dec 03 | 14-15 |     | Lifting the plate  | Aug 12 | 26-27   |     |
| Nailing timber weatherboards                                | Feb 06 | 22    |     |  |        |         |     |
| New criteria for appraising claddings                       | Aug 02 | 54-55 |     | <b>Climate change</b>                                    |        |         |     |
| Penetrations - importance of good design                    | Oct 03 | 20-21 |     | Adapting buildings                                       | Nov 00 | 57-58   |     |
| Pipe penetrations through claddings                         | Dec 07 | 26-27 |     | Australias response to climate change                    | Oct 03 | 39      |     |
| Plastered clay-brick veneers                                | Jun 05 | 60-61 |     | Building in resilience                                   | Aug 13 | 66-67   |     |
| Plywood as wind barriers                                    | Jan 00 | 14-15 |     | Built to last  | Apr 14 | 45-46   | 141 |
| Polycarbonate glazing and NZ conditions                     | Sep 98 | 38-39 |     | Changing climates and the impact on our homes            | Jul 98 | 31-33   |     |
| Polystyrene insulated panel in fires                        | Aug 03 | 80    |     | Climate change and Aussie cities                         | Apr 07 | 46-47   |     |
| Polystyrene mouldings                                       | Jan 02 | 18-19 |     | Climate change and extreme weather                       | Aug 06 | 40-42   |     |
| Precast becomes popular                                     | Feb 12 | 86-87 |     | Climate Change Sustainability Index (CCSI)               | Jan 99 | 42-44   |     |
| Precast concrete panels at Waiwhetu Cultural Centre         | Feb 06 | 28-29 |     | Climate change update                                    | Oct 03 | 37-38   |     |
| Preventing splitting of board and batten claddings          | Mar 99 | 11    |     | Climate change: affect on rainfall                       | Apr 08 | 52-53   |     |
| Profile metal wall cladding common questions                | Jun 06 | 31    |     | Climate changes affect on houses                         | Jun 07 | 100-101 |     |
| Proprietary cladding systems                                | Oct 09 | 46-47 |     | Combat overheating without using energy                  | Dec 10 | 40-41   |     |
| Protect those weatherboards                                 | Jun 12 | 19-20 |     | Compelling examination of climate change (book review)   | Apr 07 | 82      |     |
| Purpose of a cladding cavity                                | Apr 04 | 38-40 |     | Cool design features                                     | Sep 98 | 37      |     |
| PVC claddings and NZ conditions                             | Sep 98 | 38-39 |     | Cooperative approach to climate change                   | Jan 02 | 51      |     |
| Reassessing performance requirements of wraps               | Sep 00 | 39-40 |     | Countering solar gain                                    | Sep 98 | 37      |     |
| Refresher on flashings                                      | Oct 04 | 76-77 |     | Designing for extreme weather                            | Jul 01 | 39-40   |     |
| Regional differences in claddings used                      | Jun 06 | 46    |     | Designing homes for climate change                       | Aug 06 | 54-55   |     |
| Resourceful timber  | Oct 12 | 88-89 |     | Eco-building. Design and build to the environment        | Apr 06 | 64-65   |     |
| Reverse board and batten                                    | Apr 06 | 23    |     | Eco-building. Design and build to the environment        | Apr 06 | 64-65   |     |
| Rigid wall underlays  | Apr 13 | 24    |     | Effects on buildings                                     | Jul 98 | 31-33   |     |
| R-values and cavities                                       | Aug 04 | 22-23 |     | Effects on office buildings                              | Jan 00 | 64-66   |     |
| Selecting a flexible wall underlay                          | Apr 13 | 25-26 |     | Flood it   | Jun 15 | 52-53   | 148 |
| Selecting claddings   | Apr 04 | 34-36 |     | Flooding New Zealands no. 1 hazard                       | Aug 06 | 46-48   |     |
| Selecting masonry veneer wall ties                          | Jan 99 | 10-11 |     | Hazardous work   | Apr 14 | 66-67   | 141 |
| Selecting roof claddings                                    | Dec 08 | 57-60 |     | How can Kyoto Protocol benefit NZ industry?              | Oct 04 | 86      |     |
| Selecting weatherboards and their fixing                    | Apr 04 | 44-46 |     | Joint approach to climate change                         | Dec 02 | 58      |     |
| Selection of claddings                                      | Jun 07 | 63-64 |     | Manawatu floods lessons for building industry            | Aug 06 | 50-51   |     |
| Sill flashings for windows                                  | Apr 05 | 26-27 |     | Planning for post-disaster reconstruction                | Aug 06 | 52-53   |     |
| Sill flashings for windows and doors                        | Jun 04 | 14-15 |     | Planning for the effects of climate change               | Jan 99 | 42-44   |     |
| Sill tray installation                                      | Dec 03 | 18    |     | Protecting buildings                                     | Nov 00 | 59-60   |     |
| Solar heating for schools                                   | Oct 08 | 78-79 |     | Protecting properties against floods                     | Jun 15 | 50-51   | 148 |
| Stainless steel considerations                              | Aug 13 | 44-45 |     | Russia and the Kyoto Protocol                            | Feb 04 | 48-49   |     |
| Stainless steel fixings                                     | Apr 04 | 56-57 |     | Shifting sands, rising seas and a gradual retreat        | Dec 10 | 46-47   |     |
| Structurally fixing cavity battens                          | Feb 05 | 20-21 |     | Storms and flooding                                      | Jul 01 | 34-36   |     |
| Stucco - detailing the options                              | Aug 03 | 16    |     | Sustainable water use - lessons from the desert          | Aug 04 | 70-71   |     |
| Stucco and fire ratings                                     | Oct 97 | 16-17 |     | Weathering the weather                                   | Jun 15 | 86-87   | 148 |
| Stucco control joints                                       | Dec 04 | 63    |     |  |        |         |     |
| Stucco to weatherboard junctions                            | Jan 01 | 20    |     | <b>Coatings see also Finishes</b>                        |        |         |     |
| Success of brick veneer                                     | Dec 04 | 36-37 |     | Coating durability                                       | Aug 08 | 27      |     |
| Texture-coated fibre-cement claddings (EM4)                 | Oct 04 | 32-33 |     | Coatings and exterior painted surfaces                   | Jun 11 | 54-55   |     |
| The fix on profiled metal wall cladding                     | Feb 15 | 29-30 | 146 | Coatings for claddings                                   | Jun 06 | 52-53   |     |
| Timber coatings research                                    | Jun 97 | 46-47 |     | Coatings for claddings                                   | Jun 05 | 56-58   |     |
| Timber joinery installation with board and batten           | Oct 05 | 36-37 |     | Coatings for steelwork                                   | Apr 11 | 56-57   |     |
| Timber weatherboards  | Jun 05 | 26    |     | Finishes for aluminium joinery                           | Oct 03 | 12-13   |     |
| Timber weatherboards - how not to bow                       | Oct 05 | 34    |     | Lead-based paint removal                                 | Oct 06 | 64      |     |
| Timber windows in profiled-metal cladding                   | Aug 06 | 22-23 |     | Paints, corrosion and the Auckland Harbour Bridge        | Feb 06 | 76-77   |     |
| Treating cut ends of timber                                 | Dec 03 | 19    |     |  |        |         |     |
| Trends in claddings   | Jun 07 | 68-69 |     | <b>Code compliance certificates</b>                      |        |         |     |
| Underwear for claddings                                     | Apr 04 | 48-50 |     | Building Act - transition from TAs to BCAs               | Apr 05 | 52      |     |



|  |        |         |     |   |        |       |     |
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| Building Act CCC could paralyse industry                                   | Oct 05 | 92-93   |     | How dry is dry enough?  | Apr 02 | 13-15 |     |
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| Near kitchens   | Jul 98 | 15      |     |  |  |
| Performance in residential buildings                                  | Apr 97 | 64-66   |     |  |  |
| Research into the performance of fire detectors                       | Jul 98 | 78-79   |     |  |  |
| Stopping kitchen fires  | Oct 09 | 82      |     |  |  |
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| Evacuation schemes  | Aug 03 | 38-39   |     |  |  |
| Evacuation times & new fire ratings - how realistic are they?         | May 01 | 21-23   |     |  |  |
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| Fire resistance - attention to detail                                 | Feb 08 | 62-63   |     |  |  |
| Fire terms and testing  | Oct 15 | 28-29   | 150 |  |  |
| Penetrations in fire-rated plasterboard                               | Apr 12 | 17-18   |     |  |  |
| Revised fire safety approved documents                                | May 01 | 19-20   |     |  |  |
| Specifying them   | Sep 99 | 34      |     |  |  |
| <b>Fire sprinklers</b>  |        |         |     |  |  |
| Affordable sprinklers (research)                                      | Sep 00 | 11      |     |  |  |
| Bringing fire sprinklers into homes                                   | Dec 10 | 56-57   |     |  |  |
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| Low-cost fire sprinklers for families                                 | Sep 01 | 37      |     |  |  |
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| Retrofitting a home sprinkler system - case study                     | Feb 10 | 42-43   |     |  |  |
| Rural domestic fire sprinkler systems                                 | Dec 03 | 20-21   |     |  |  |
| Smoke alarms and fire sprinklers - how economic are they?             | Sep 01 | 16-17   |     |  |  |
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| Bottom plate anchors  | Dec 13 | 29-30   |     |  |  |
| CCA treated poles and corrosion of fasteners                          | Feb 97 | 17      |     |  |  |
| Choosing a nail or screw for 50 year durability                       | Jun 10 | 28-29   |     |  |  |
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| Durability of metal components for decks or balconies                 | Aug 07 | 18      |     |  |  |
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| Fastener corrosion and treated timber                                 | Jun 03 | 26-27   |     |  |  |
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| Popular anchor  | Jun 14 | 30-31   | 142 |  |  |
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| Selecting nails and screws for 50-year durability                     | Aug 13 | 40      |     |  |  |
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| Stainless steel in coastal regions                                    | Jan 99 | 31      |     |  |  |
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| <b>Flashings</b>  |        |         |     |  |  |
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| At the crossroads   | Oct 12 | 35-36   |     |  |  |
| Attaching decks   | Feb 04 | 22-23   |     |  |  |
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| BRANZ weathertightness poster - doors and balconies                   | Aug 03 | 22      |     |  |  |
| BRANZ weathertightness poster - roof/wall junction                    | Feb 03 | 8-9     |     |  |  |
| BRANZ weathertightness poster - window flashings                      | Dec 03 | 23      |     |  |  |
| Compatibility of flashings and claddings                              | Jun 05 | 52-54   |     |  |  |
| Detailing windows for brick veneer                                    | Feb 06 | 16-17   |     |  |  |
| Flashing above windows with facing boards and bevelback weatherboards | Apr 07 | 20      |     |  |  |
| Flashing brick veneer infill panels                                   | Feb 07 | 26-27   |     |  |  |
| Flashing the hip ridge junction                                       | Aug 03 | 12      |     |  |  |
| Flashings - more than window dressing                                 | Dec 07 | 58-59   |     |  |  |
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| Gable dormer junctions detail and flashing                            | Aug 07 | 23-24   |     |  |  |
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| More on head flashings  | Dec 03 | 14-15   |     |  |  |
| Prediction and protection   | Mar 00 | 14-16   |     |  |  |
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| Sill flashings for windows  | Apr 05 | 26-27   | Trends in flooring  | Jan 98 | 23-25 |
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| Sill support for windows  | Aug 14 | 24-26   | Under-floor heating   | Feb 04 | 44-45 |
| Sill tray installation  | Dec 03 | 18      | Underfloor reflective foil                                  | Feb 08 | 20    |
| Solid barrier walls - keeping water out                                 | Jan 02 | 20      | Waterproofing an existing concrete floor slab               | Oct 97 | 16-17 |
| Stucco to weatherboard junctions  | Jan 01 | 20      | Wet area suspended floors                                   | Aug 13 | 30    |
| Tile roofs and flashings  | Sep 98 | 8-9     | Wet areas and wood use                                      | Apr 06 | 18    |
| Tricky lean-to junctions  | Feb 14 | 32-34   | When is a concrete floor slab dry?                          | Jun 09 | 24    |
| Underlays and window head flashings                                     | Aug 03 | 14-15   |   |        |       |
| WANZ 'WIS' system for windows   | Aug 02 | 56-57   |   |        |       |
| Why are turn-ups needed under flashings?                                | Sep 99 | 22-23   |   |        |       |
| Window and door jambs   | Apr 04 | 18-19   |   |        |       |
| Window head flashing with bevelback weatherboards and cavity            | Aug 07 | 26-27   |   |        |       |
| Window jambs  | Feb 04 | 20-21   |   |        |       |
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| <b>Floors</b>   |        |         |   |        |       |
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| Building a suspended floor  | Jun 05 | 20-21   |   |        |       |
| Building officials concerned about noise through floors                 | Mar 01 | 51      |   |        |       |
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| Ceramic tiles, preventing cracking                                      | Jan 98 | 29-31   |   |        |       |
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| Concrete slab terminology   | Jul 01 | 10      |   |        |       |
| Concrete slab-on-ground floors with timber insulation                   | Jun 07 | 103-105 |   |        |       |
| Concrete slabs & joints under NZS 3604                                  | Aug 05 | 22-25   |   |        |       |
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| Concrete slabs drying (measuring and hygrometer use)                    | Feb 06 | 58-59   |   |        |       |
| Costs of concrete compared to timber floors                             | Jan 98 | 8-9     |   |        |       |
| Cutting mesh when cutting control joints                                | Oct 04 | 35      |   |        |       |
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| Detailing level entrances to concrete ground floors                     | Sep 00 | 14-15   |   |        |       |
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| Embedded floor heating  | Oct 07 | 24-25   |   |        |       |
| Energy Efficiency requirements for floors                               | Jan 98 | 41-42   |   |        |       |
| Fire resistance of timber floors (research)                             | Mar 00 | 58-60   |   |        |       |
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| Floor deflection  | Aug 04 | 42-43   |   |        |       |
| Floor slabs with polystyrene pods                                       | Apr 11 | 26-27   |   |        |       |
| Flooring for public and commercial buildings                            | Sep 99 | 46-48   |   |        |       |
| Floor-levelling compounds and moisture                                  | Mar 99 | 9       |   |        |       |
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| Insulating concrete slab on ground                                      | Aug 03 | 56-58   |   |        |       |
| Insulating existing timber floors                                       | Jul 01 | 15-16   |   |        |       |
| Insulation of slab-on-ground floors                                     | Dec 08 | 28-29   |   |        |       |
| Insulation value of concrete slab floors                                | Jan 98 | 43-44   |   |        |       |
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| Laying timber floors over concrete                                      | Sep 98 | 78      |   |        |       |
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| Particleboard   | May 98 | 70      |   |        |       |
| Particleboard flooring in wet areas                                     | Sep 98 | 19      |   |        |       |
| Particleboard floors in earthquake and wind test                        | Sep 99 | 67      |   |        |       |
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| Reducing vibration in timber floors                                     | Jan 98 | 37-38   |   |        |       |
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| Squeaky floors research   | Jan 01 | 54-56   |   |        |       |
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| Subfloors   | May 98 | 70      |   |        |       |
| Surfaces to stop slips and falls  | Oct 07 | 20-21   |   |        |       |
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|   |        |         | Anchor piles under NZS 3604:1999                            | Jan 00 | 22    |
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|   |        |         | Concrete cover and durability of foundations                | Aug 03 | 60-61 |
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|   |        |         | Forming up concrete foundations                             | Apr 05 | 18-19 |
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|   |        |         | Fresh thinking  | Aug 14 | 42-45 |
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|   |        |         | Insulating concrete slab edges                              | Oct 04 | 25-27 |
|   |        |         | Perimeter insulation  | Aug 14 | 78-80 |
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|   |        |         | Relocated buildings   | Jul 00 | 56-57 |
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|   |        |         | Site set-out  | Dec 04 | 16-17 |
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| <b>Hardware</b>   |        |         |     |  |  |
| Accessibility hardware                                      | Oct 15 | 40-42   | 150 |  |  |
| Finishes on architectural hardware                          | Oct 97 | 19      |     |  |  |
| <b>Health see also Safety</b>                               |        |         |     |  |  |
| Achieving comfort with insulation/thermal mass              | Feb 05 | 52-54   |     |  |  |
| Adverse effects of internal moisture (tramping hut)         | Feb 03 | 16-17   |     |  |  |
| Airborne allergen research                                  | Oct 08 | 64-65   |     |  |  |
| Asbestos and air pollutants                                 | Aug 98 | 28-30   |     |  |  |
| Asbestos contamination of soil                              | Mar 99 | 54-55   |     |  |  |
| Asthma study wins Zonta/Building Research Award             | Aug 06 | 108     |     |  |  |
| BRANZ and healthy housing research                          | Feb 05 | 60      |     |  |  |
| Builder beware: Hazards of working outside                  | Apr 12 | 36-37   |     |  |  |
| Can design make you healthier                               | Apr 12 | 32-33   |     |  |  |
| Cladding material safety considerations                     | Jun 06 | 80      |     |  |  |
| Comfort levels in NZ houses                                 | Apr 03 | 36-37   |     |  |  |
| Designing built shade for sun protection                    | Oct 02 | 44-46   |     |  |  |
| Does home insulation improve your health?                   | Apr 02 | 67      |     |  |  |
| Drinking water from the roof                                | Jan 01 | 15-16   |     |  |  |
| Drinking water from the roof                                | Dec 04 | 68      |     |  |  |
| Dust mites and asthma research                              | May 98 | 32-34   |     |  |  |
| Dust mites and moisture research                            | Jan 00 | 53      |     |  |  |
| Electric power and magnetic fields                          | Apr 97 | 67-68   |     |  |  |
| Employee liability (under H&S Act)                          | Nov 98 | 23-24   |     |  |  |
| Employers and the new accident compensation regime          | Sep 99 | 26-27   |     |  |  |
| Employers' responsibilities                                 | Mar 98 | 19-20   |     |  |  |
| Handling timber safely                                      | Jun 04 | 54      |     |  |  |
| Healthy buildings research in NZ                            | Sep 01 | 58-60   |     |  |  |
| Healthy homes for children                                  | Oct 08 | 57-58   |     |  |  |
| Heating plus insulation but homes still too cold            | Oct 08 | 62-63   |     |  |  |
| Homes can measure up  | Apr 12 | 38-39   |     |  |  |
| Household crowding an avoidable health risk                 | Feb 07 | 36-37   |     |  |  |
| How safe and healthy is a home?                             | Oct 08 | 66-67   |     |  |  |
| Humidity levels, dust mites and asthma                      | Mar 99 | 30      |     |  |  |
| HVAC and air quality  | May 98 | 42      |     |  |  |
| Improving energy use for rural Maori                        | Feb 05 | 64-65   |     |  |  |
| Increased understanding of indoor mould                     | Aug 02 | 48      |     |  |  |
| Indoor air quality  | May 98 | 8-9     |     |  |  |
| Indoor air quality  | May 98 | 35-37   |     |  |  |
| Indoor air quality research                                 | Feb 97 | 50-51   |     |  |  |
| Indoor pollutants   | May 98 | 28-30   |     |  |  |
| Influence of building fabric on users health (UK Report)    | Oct 97 | 53-54   |     |  |  |
| Insulating houses can improve health                        | Sep 01 | 62      |     |  |  |
| Insulation links to better health (research)                | May 00 | 52      |     |  |  |
| Keeping health and safety simple                            | Oct 09 | 78-79   |     |  |  |
| Lead-based paint removal                                    | Oct 06 | 64      |     |  |  |
| Legionnaires' disease and changes to standards (Australia)  | Sep 00 | 56-57   |     |  |  |
| Managing lower back pain                                    | Jun 05 | 86      |     |  |  |
| Mould and dust-mites thrive in high relative humidity       | Feb 07 | 40-41   |     |  |  |
| Mould from water leaks                                      | May 98 | 35      |     |  |  |
| Mouldy low mass houses (letter)                             | Mar 01 | 6       |     |  |  |
| Nanotechnology helps battle the bugs                        | Feb 07 | 44-45   |     |  |  |
| Occupant well-being is a Building Code issue                | Apr 03 | 34-35   |     |  |  |
| Polystyrene buildings - are they safe in fires?             | Jul 01 | 68-69   |     |  |  |
| Putting mould under the microscope                          | Aug 02 | 45-46   |     |  |  |
| Retrofitting for southern winters                           | Apr 08 | 38-40   |     |  |  |



## Industry news

|  |        |       |     |
|--|--------|-------|-----|
| 2006 Origin Timber Design Awards                     | Feb 07 | 58-59 |     |
| 2008 Landscape awards                                | Jun 08 | 64-65 |     |
| ADNZ/Resene 2006 National Design Awards              | Dec 06 | 62-63 |     |
| Base-isolated building design - ChCh womens hospital | Oct 03 | 71    |     |
| Building Careers Week in 2006                        | Dec 06 | 64    |     |
| Challenges for the New Zealand building industry     | Jun 02 | 50    |     |
| Cities in flux                                       | Dec 13 | 46-49 |     |
| Clayton Cosgrove Minister of Building Issues         | Dec 05 | 49    |     |
| Contrasting demands                                  | Dec 13 | 50-51 |     |
| Healthy home research wins top science prize         | Feb 15 | 13    | 146 |
| Humidity measurements - national standard for        | Aug 02 | 78    |     |
| It's a material world                                | Jun 12 | 44-45 |     |
| Revised and updated NZS 3910:2003                    | Oct 03 | 68-70 |     |
| Roles of DBH, Standards and others                   | Apr 09 | 50    |     |
| The 'smart home' choice                              | Dec 02 | 33-34 |     |
| Timber design awards                                 | Feb 08 | 74-75 |     |

## Industry profile

|   |        |       |     |
|---|--------|-------|-----|
| A details person - Erich Stocker                          | Aug 13 | 18    |     |
| A strategic thinker - Grant Close                         | Feb 14 | 15    | 140 |
| Alan Bickers - Building Practitioners Board Chair         | Oct 07 | 82    |     |
| Andrew Holmes   | Dec 07 | 72-73 |     |
| Andrew Reding   | Apr 04 | 90    |     |
| Army carpentry apprentices                                | Dec 06 | 60    |     |
| Barry Brown   | Jun 02 | 51    |     |
| Bill Smith  | Oct 08 | 76-77 |     |
| Born to the business - Kevin Stanley                      | Dec 13 | 15    |     |
| Brent Metrick - an innovation communicator                | Dec 10 | 70-71 |     |
| Brian McGuinness - Blood, sweat and sawdust               | Apr 12 | 58-59 |     |
| Builders - past, present and future                       | Dec 05 | 76    |     |
| Building scientists                                       | Oct 06 | 86    |     |
| Building services engineer                                | Oct 05 | 102   |     |
| Cathy Tracey - Pushing back                               | Jun 13 | 17    |     |
| Chris Beer reckons building is a good career              | Apr 11 | 68-69 |     |
| Crouch-pause-set (Mark Southcombe)                        | Oct 13 | 15    |     |
| Daniel Fuemana - Teaching technology                      | Aug 12 | 64-65 |     |
| David Brunsdon - consulting engineer                      | Oct 02 | 27    |     |
| David Kelly - New hand at the helm                        | Feb 15 | 18    | 146 |
| David Sheppard - in the zone                              | Oct 11 | 84-85 |     |
| Don Bunting - a problem solving ideas man                 | Jun 10 | 74-75 |     |
| Don Stock and Naylor Love                                 | Jun 11 | 70-71 |     |
| Drawn to structural engineering                           | Aug 15 | 16-17 | 149 |
| Fascination for law changed path for George Douglas       | Jun 08 | 68-69 |     |
| Forward thinker - Craig Jarvis                            | Jun 14 | 18    | 142 |
| Friedensreich Hundertwasser                               | Feb 08 | 76-77 |     |
| Going for growth - Geoff Hunt                             | Dec 14 | 15    | 145 |
| Gordon Moller   | Aug 06 | 97    |     |
| Graham Coe, BRANZ board chair                             | Dec 08 | 73-74 |     |
| Graham Mallett  | Apr 04 | 88    |     |
| Grant Florence - Qualified response to a watershed moment | Apr 12 | 60-61 |     |
| Greg Boyden   | Aug 04 | 77    |     |
| Greg McGovern - award winning builder                     | Feb 11 | 70-71 |     |
| Greg Orchard - Housing NZ Corporation                     | Oct 03 | 74    |     |
| Helen Anderson - scientist turned leader                  | Dec 11 | 62-63 |     |
| In the right place - Professor Ken Elwood                 | Oct 14 | 18    | 144 |
| Jane Cummings roller-coaster ride                         | Aug 08 | 72-73 |     |
| John Lucas succeeds Chris Ryan on BRANZ Board             | Dec 02 | 30    |     |
| John Sutherland reflects on many changes                  | Apr 10 | 66-67 |     |
| Karl Wilkinson - The making of a future leader            | Jun 12 | 66-67 |     |
| Katrina Bach  | Dec 04 | 75    |     |
| Ken Stanton - An honest broker                            | Apr 13 | 11    |     |
| Linda Kestle - adventurer with a passion for education    | Feb 10 | 68-69 |     |
| Making a difference - Carinnya Feanati                    | Apr 14 | 16    | 141 |
| Maurice Williamson, Building and Construction Minister    | Aug 09 | 58-59 |     |
| Mikael Boulic - Heating healthy schools                   | Oct 12 | 15    |     |
| Mike O'Malley   | Aug 10 | 76-77 |     |
| Minister Clayton Cosgrove                                 | Apr 06 | 96    |     |
| Minister Nick Smith on sustainability                     | Dec 09 | 82-83 |     |
| New BRANZ Board Member - Steve Gentry                     | Jun 03 | 78    |     |
| New chairman of CIC - John Pfahlert                       | Feb 03 | 65    |     |
| Nick Collins cold war                                     | Feb 12 | 66-67 |     |
| Other BRANZ board members                                 | Dec 08 | 74-75 |     |
| Paul Blackler   | Jun 06 | 109   |     |
| Peter Gomm, new Mainzeal CEO                              | Oct 09 | 80-81 |     |
| Peter Robertson - CEO of BRANZ Ltd                        | Oct 04 | 12-13 |     |
| Phil Heatley, Housing Minister                            | Jun 09 | 64    |     |

|  |        |       |     |
|--|--------|-------|-----|
| Philip Lindesay's success                          | Apr 09 | 58-59 |     |
| Pieter Burghout - new BRANZ CEO                    | Oct 08 | 74-75 |     |
| Property inspections                               | Feb 06 | 78    |     |
| Ray Barbara - ECANZ                                | Apr 03 | 87    |     |
| Redican Allwood Ltd                                | Oct 06 | 88-89 |     |
| Richard Merrifield - born to build                 | Oct 10 | 78-79 |     |
| Richard Toner                                      | Feb 07 | 84    |     |
| Rob Lang - new chair of the Green Building Council | Feb 09 | 64-65 |     |
| Rod Macdiarmid                                     | Apr 05 | 76-77 |     |
| Roger O'Neill                                      | Dec 04 | 74    |     |
| Roger Shelton: engineer for life                   | Aug 11 | 68-69 |     |
| Role of architects                                 | Jun 05 | 90-91 |     |
| Steve Hemsley - Waiariki sawmill manager           | Dec 03 | 58    |     |
| Structural engineers                               | Aug 05 | 66    |     |
| Stuart Kendon - Chairman of BRANZ Board            | Dec 03 | 60    |     |
| Taking care - Classic builders                     | Aug 14 | 18    | 143 |
| The problem solver                                 | Jun 15 | 16    | 148 |
| Tom Edhouse - the man on the BRANZ helpline        | Jun 09 | 66-67 |     |
| Tony Barbarich                                     | Feb 04 | 65    |     |
| Women in construction and NAWIC                    | Dec 05 | 40-42 |     |
| Working for quality - Phil Saunders                | Oct 15 | 12-13 | 150 |

## Innovative solutions

|   |        |       |     |
|---|--------|-------|-----|
| Air NZ - No flight of fancy   | Jun 09 | 32-33 |     |
| Auckland Central Connector - one team success   | Apr 11 | 28-29 |     |
| Benefits of building off site   | Jun 10 | 48    |     |
| BIM - the future is here  | Jun 15 | 89-90 | 148 |
| Building on research - 2013 World Building Congress                                   | Aug 13 | 78-79 |     |
| Clever thinking protects workers  | Dec 14 | 90-91 | 145 |
| CLT is seismic retrofits  | Feb 15 | 70-71 | 146 |
| Commitment to people - Sovereign House  | Dec 09 | 38-39 |     |
| Concrete commitment to innovation   | Aug 15 | 48-49 | 149 |
| Constructing great NZ projects  | Jun 10 | 56-57 |     |
| Copper claddings  | Oct 02 | 22-23 |     |
| Cultural engagement delivers best-in-class Kura                                       | Dec 10 | 34-35 |     |
| Deceptive strength and solidity to Site 3   | Dec 03 | 24-25 |     |
| Demystifying prefabrication   | Jun 11 | 26-27 |     |
| Development of Oriental Bay amenities, Wellington                                     | Dec 04 | 12-14 |     |
| Fresh thinking  | Aug 14 | 42-45 | 143 |
| Green Hamilton hospital a healthier choice  | Oct 09 | 38-39 |     |
| Head and sill details   | Apr 03 | 28-29 |     |
| High performance modular houses   | Jun 10 | 62-63 |     |
| Hopwood clock tower, Palmerston North - Early Contractor Involvement                  | Feb 11 | 24-25 |     |
| Innovation & education at Bristol   | Jun 03 | 16-17 |     |
| Innovation and prefabs  | Feb 12 | 28-29 |     |
| Innovation to expand timbers use - STIC   | Apr 09 | 40    |     |
| Innovative answers to city housing  | Dec 13 | 77-79 |     |
| Innovative design of Jagged Edge building   | Apr 07 | 28-29 |     |
| Innovative timber reaches new highs   | Dec 14 | 50-51 | 145 |
| Innovative use of EWP   | Dec 02 | 28-29 |     |
| Learning from innovation  | Aug 15 | 86-87 | 149 |
| Learning lessons from german prefab   | Jun 10 | 46-47 |     |
| Making it up  | Aug 14 | 40-41 | 143 |
| Manukau Harbour Crossing - second generation alliance                                 | Aug 10 | 32-33 |     |
| Meridian Building flagship for sustainability   | Feb 09 | 30-31 |     |
| Middlemore - Building for the next generation   | Aug 11 | 26-27 |     |
| National Banks first green retail building  | Feb 09 | 32-33 |     |
| Navy training base at close quarters  | Apr 11 | 30-31 |     |
| Northern Busway partnership a winning formula   | Apr 09 | 28-29 |     |
| Nuturing growth - Kawakawa  | Aug 14 | 56-57 | 143 |
| On good ground  | Aug 14 | 53-54 | 143 |
| Out of this world   | Aug 14 | 50-51 | 143 |
| Pathfinder - East Coast Rd, Auckland  | Feb 10 | 24-25 |     |
| Pathfinder 1 - Hopkirk Research Institute, Collaboration under a traditional contract | Oct 08 | 8-39  |     |
| Pathfinder 2 - Northern Gateway Alliance, alliance model                              | Dec 08 | 36-37 |     |
| Pathfinder rewards  | Oct 08 | 36-37 |     |
| Precast concrete panels at Waiwhetu Cultural Centre                                   | Feb 06 | 28-29 |     |
| Prefab housing: Potential for development   | Jun 10 | 44-45 |     |
| Preplanning delivers value at BRANZ   | Dec 11 | 26-27 |     |
| Rain screen on dry hills house  | Feb 03 | 26-27 |     |
| Real-world research   | Jun 14 | 8     | 142 |
| Resourcing BIM  | Aug 14 | 47-49 | 143 |
| Roofing that generates electricity and heat   | Apr 08 | 72-73 |     |
| Schools of Architecture and Design  | Jun 03 | 14-15 |     |
| Seismic technology showcase   | Apr 14 | 59-62 | 141 |

|   |        |         |     |  |        |         |     |
|---|--------|---------|-----|--|--------|---------|-----|
| Sorting out peak performance                                | Aug 14 | 59-60   | 143 | Insulation to suspended timber floors                  | Apr 03 | 46      |     |
| St Josephs church, Wellington claddings                     | Jun 05 | 30-31   |     | Insulation tools                                       | Aug 04 | 44-45   |     |
| Stair detailing in Lemmon house, Wellington                 | Apr 06 | 30-32   |     | Insulation value of concrete slab floors               | Jan 98 | 43-44   |     |
| State-of-the-art school                                     | Oct 11 | 28-29   |     | Is thermal insulation performing?                      | Jun 13 | 67-69   |     |
| The most important thing is people - UCOL Wanganui          | Aug 09 | 32-33   |     | Is your insulation a good fit?                         | Aug 08 | 14-15   |     |
| The new Christchurch Art Gallery                            | Aug 03 | 26-28   |     | Joint Standard on insulation                           | Jul 01 | 56      |     |
| Timber floor system   | Oct 13 | 86-87   |     | Links to better health (research)                      | May 00 | 52      |     |
| Timber takes on new forms                                   | Aug 15 | 50-51   | 149 | Measuring in-situ thermal performance                  | Aug 08 | 40-41   |     |
| Totally timber, inside and out                              | Apr 04 | 26-27   |     | New insulation requirements for small buildings        | Aug 07 | 68-69   |     |
| Victoria University - A façade to stand the test of time    | Apr 10 | 26-27   |     | New test to measure insulation levels (STEM)           | Mar 99 | 52-53   |     |
| Virtually happening   | Aug 15 | 84      | 149 | Optimising insulation                                  | Apr 10 | 23      |     |
| Wall claddings that heat the house                          | Jun 06 | 32-33   |     | Perimeter insulation                                   | Aug 14 | 78-80   | 143 |
| Waterfront building designed for wind and rain              | Feb 04 | 26-27   |     | Poorly fitted wall insulation cuts thermal performance | Apr 10 | 68-69   |     |
| Wellington Sports Centre - delivering more for less         | Oct 10 | 32-33   |     | Renovating for sustainability in Papakowhai            | Apr 08 | 34-35   |     |
| Years of interesting innovation                             | Jun 10 | 58-60   |     | Retrofitting blown-in wall insulation                  | Jun 13 | 36      |     |
|   |        |         |     | Retrofitting for cosy walls                            | Apr 12 | 70-71   |     |
|   |        |         |     | Retrofitting for southern winters                      | Apr 08 | 38-40   |     |
| <b>Insulated Glazing Units (IGUs) see Double glazing</b>    |        |         |     | Retrofitting homes for energy efficiency               | Apr 03 | 47-49   |     |
| Retrofitting double glazing                                 | Apr 08 | 36-37   |     | Retro-fitting insulation                               | Jan 00 | 58      |     |
|   |        |         |     | Retrofitting insulation                                | Feb 15 | 36-38   | 146 |
|   |        |         |     | Retrofitting insulation correctly                      | Oct 09 | 17-18   |     |
| <b>Insulation</b>   |        |         |     | Retrofitting insulation to older homes                 | Apr 03 | 42-43   |     |
| ABC of house insulation                                     | Jul 01 | 58-60   |     | Retrofitting insulation to subfloors                   | Apr 03 | 44-45   |     |
| Achieving zero fossil fuel homes in NZ                      | Feb 06 | 68-69   |     | Retrofitting roof insulation                           | Apr 07 | 22-23   |     |
| Benefits of thermal mass in heavy walls (research)          | Sep 00 | 68-70   |     | Retro-fitting underfloor insulation, the dangers       | Mar 98 | 62      |     |
| Beware insulation tucks, folds and gaps                     | Jun 12 | 68-69   |     | Retro-fitting, research                                | Sep 98 | 58-59   |     |
| BRANZ insulation measurement services                       | Nov 99 | 60      |     | Short Term Energy Monitoring (STEM)                    | Mar 99 | 52-53   |     |
| Calculating R-values of construction                        | Jul 01 | 62-63   |     | Slab-edge insulation                                   | Jun 14 | 33      | 142 |
| Calculation method for insulation                           | Feb 04 | 12      |     | Sound classification of dwellings                      | Feb 04 | 70-71   |     |
| Can we afford not to insulate?                              | Feb 04 | 8-9     |     | Sound insulation in offices                            | Jul 98 | 14-15   |     |
| Ceramic paints - do they insulate                           | Jul 98 | 82      |     | Steel framing - condensation and thermal bridges       | Apr 05 | 22-23   |     |
| Changes to BRANZ testing                                    | Mar 98 | 47      |     | Steps to good insulation design                        | Apr 08 | 16-17   |     |
| Changes to domestic regulations                             | Jul 98 | 19-21   |     | Strapping and lining masonry walls                     | Mar 98 | 18      |     |
| Cheating in the US insulation industry                      | Jul 01 | 64-65   |     | Strapping and lining masonry walls for insulation      | Dec 05 | 18-19   |     |
| Checking loose-fill insulation                              | Jun 02 | 18      |     | Strapping and lining of masonry walls                  | Dec 02 | 20      |     |
| Changes to BRANZ Insulation appraisals                      | Aug 08 | 60-61   |     | Suspended timber floor insulation                      | Apr 09 | 25-26   |     |
| Climate change and adapting buildings                       | Nov 00 | 57-58   |     | Thermal breaks in steel framing                        | Sep 00 | 20-21   |     |
| Comparing costs of insulation for code/better/best Concrete | Apr 03 | 14-15   |     | Thermal breaks in steel framing                        | Jan 00 | 22      |     |
| Concrete slab edge insulation                               | Feb 13 | 24-26   |     | Thermal insulation                                     | Oct 07 | 110-111 |     |
| Concrete slab-on-ground floors insulation                   | Jun 07 | 32-33   |     | Thermal insulation changes in NZS 4218:2009            | Oct 09 | 24-25   |     |
| Concrete slab-on-ground floors with timber insulation       | Jun 07 | 103-105 |     | Thicker insulation changes roof design                 | Aug 09 | 20-21   |     |
| Construction R-values vs insulation R-values                | Jul 01 | 17-18   |     | Tucking up downlights                                  | Oct 06 | 24-25   |     |
| Cost versus benefit of greater than Code insulation         | Aug 10 | 34      |     | Underfloor reflective foil                             | Feb 08 | 20      |     |
| Determining insulation requirements                         | Apr 03 | 20-22   |     | Upgrading subfloor insulation                          | Feb 10 | 15-16   |     |
| Development of thermal insulation part 2                    | Jun 10 | 94-95   |     | Using the NZBC H1 calculation method                   | Apr 08 | 19-20   |     |
| Discolouring on linings, causes and solutions               | Mar 00 | 12-13   |     | Warm house challenge - concerns                        | Oct 10 | 60      |     |
| Does home insulation improve your health?                   | Apr 02 | 67      |     | What use is IIC?                                       | Feb 04 | 68      |     |
| Double glazing  | May 98 | 45-46   |     | Why install insulation                                 | Feb 97 | 49      |     |
| Double glazing to reduce condensation                       | Mar 99 | 36      |     | Wool insulation breakthrough                           | Jan 98 | 65      |     |
| Downlights, wet areas and insulation                        | Oct 09 | 19      |     |  |        |         |     |
| Economics of better acoustic insulation                     | Aug 15 | 70-71   | 149 |  |        |         |     |
| Electrical cables in polystyrene insulation                 | Jul 01 | 26-27   |     | <b>Insurance</b>                                       |        |         |     |
| Energy Efficiency requirements for floors                   | Jan 98 | 41-42   |     | Are you covered by your insurance                      | Feb 10 | 64-65   |     |
| Energy-efficiency Standards                                 | May 98 | 39      |     | Australia's insurance woes impact on New Zealand       | Aug 02 | 60-61   |     |
| Flood it  | Jun 15 | 52-53   | 148 | Builders liabilities and indemnity insurance           | Dec 05 | 53      |     |
| Floor slabs with polystyrene pods                           | Apr 11 | 26-27   |     | Insurance basics                                       | Jun 15 | 70-71   | 148 |
| Foam insulation   | Apr 11 | 69      |     | Insurance industry chaos                               | Dec 02 | 39      |     |
| Foam insulation (UFFI) concerns                             | Aug 10 | 78      |     | Insurance protection                                   | Dec 06 | 50      |     |
| Garages and insulation                                      | Oct 13 | 39-41   |     | Liability insurance for builders and contractors       | May 00 | 64-65   |     |
| Getting started with NZBC H1                                | Apr 08 | 14      |     | Professional indemnity insurance problems              | Dec 02 | 40      |     |
| H1 insulation changes for housing                           | Feb 08 | 32-34   |     | Protecting your business                               | Dec 12 | 48-49   |     |
| Heat flow meter for measuring insulation properties         | Jul 99 | 82      |     | Renovations and insurance cover                        | Jan 00 | 43      |     |
| Heating homes with zero emissions                           | Jan 02 | 46-48   |     | Revised and updated NZS 3910:2003                      | Oct 03 | 68-70   |     |
| Heating plus insulation but homes still too cold            | Oct 08 | 62-63   |     |  |        |         |     |
| Installed performance of ceiling insulation                 | Jun 09 | 68-69   |     | <b>International building developments</b>             |        |         |     |
| Installing insulation correctly                             | Apr 03 | 24      |     | A nest to share  | Oct 13 | 68-70   |     |
| Installing insulation in skillion roofs                     | Mar 00 | 8       |     | BRANZ advising on corrosion mitigation in Myanmar      | May 01 | 67-68   |     |
| Installing polystyrene insulation under concrete floors     | Jul 98 | 18      |     | Building business on the Internet                      | Mar 01 | 29      |     |
| Insulating concrete slab edges                              | Oct 04 | 25-27   |     | Building Centre of Japan visits BRANZ                  | May 01 | 68      |     |
| Insulating concrete slab on ground                          | Aug 03 | 56-58   |     | Building envelope of the future                        | Jan 01 | 28-29   |     |
| Insulating existing timber floors                           | Jul 01 | 15-16   |     | Building for change                                    | Apr 14 | 82      | 141 |
| Insulating houses can improve health                        | Sep 01 | 62      |     | Building on research - 2013 World Building Congress    | Aug 13 | 78-79   |     |
| Insulating single skin masonry walls                        | Jun 08 | 26-28   |     | Building world came to NZ (CIB Congress)               | May 01 | 29      |     |
| Insulating unheated spaces                                  | May 98 | 39      |     | Cooperative design teams                               | Apr 02 | 32-34   |     |
| Insulating with expanded polystyrene foam                   | Jun 04 | 20-21   |     | Demountable building transported by barge              | Jan 02 | 44-45   |     |
| Insulation - is using more cost effective?                  | Mar 01 | 8       |     | Different sustainable construction, Genesis Centre, UK | Dec 06 | 26-29   |     |
| Insulation of slab-on-ground floors                         | Dec 08 | 28-29   |     | E-business benefits and threats                        | May 01 | 69-70   |     |
| Insulation thickness and R-values                           | Aug 09 | 23      |     | European innovations in housing deliver                | Jul 00 | 47-48   |     |

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|---|--------|-------|-----|--|--------|--------|
| Factory built housing in Canada                               | Aug 06 | 104   |     | Amendments to the Weathertight Homes Resolution Service                    | Dec 06 | 48-49  |
| Fawood Childrens Centre, London                               | Aug 06 | 32-35 |     | Arbitration, how final is it?  | Nov 00 | 24-25  |
| Global piece  | Jun 14 | 84    | 142 | Are the bad guys hiding behind ADR?  | Oct 02 | 64-65  |
| Going on a gamba  | Apr 14 | 85-87 | 141 | Be clear about the contract  | Jun 12 | 60-61  |
| Green building products, world demand                         | Jan 01 | 21-22 |     | Bid-riggers taken to task  | Nov 01 | 31     |
| Hockerton still going strong                                  | Apr 10 | 28-29 |     | Body corporate explained   | Aug 06 | 76-77  |
| Hooked on the VSA Challenge                                   | Oct 08 | 18-19 |     | Bonds that stand up in insolvency  | Dec 09 | 76-77  |
| Improving the safety of tall buildings                        | Feb 04 | 72-73 |     | Building Act 2004 in force   | Oct 04 | 84-85  |
| Increased supply not the solution                             | Oct 15 | 53-54 | 150 | Building Act CCC could paralyse industry                                   | Oct 05 | 92-93  |
| Innovation & education at Bristol                             | Jun 03 | 16-17 |     | Building Act s43, code compliance certificates                             | Apr 05 | 70-71  |
| Innovative answers to city housing                            | Dec 13 | 77-79 |     | Building Act Section 36, warning notices on property titles                | Mar 00 | 67-68  |
| International sustainable and affordable houses               | Apr 05 | 64-66 |     | Building Act Section 36, warning notices on property titles                | May 00 | 61     |
| Japanese 'Orange Mode' way of building                        | Jan 02 | 48-49 |     | Building practitioner licensing coming soon                                | Aug 06 | 82-83  |
| Kiwi aid in Samoa   | Feb 10 | 26-27 |     | Building work warranties cover how long?                                   | Apr 10 | 60-61  |
| Learning lessons from german prefab                           | Jun 10 | 46-47 |     | Building's fitness for purpose and liability of contracted parties         | Mar 99 | 15-16  |
| Lessons from North America, leaking buildings                 | Jan 01 | 18-19 |     | Buying a problem   | Feb 12 | 60     |
| Loblolly House - embracing off-site construction              | Oct 06 | 80-82 |     | Cancelling a contract if it all goes wrong                                 | Jan 02 | 25-26  |
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| Singapores historic riverfront revival                        | Feb 07 | 30-32 |     | Construction Contracts - gaps and issues with the Bill                     | Jul 01 | 21-22  |
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| Sustainable building conference, Oslo, Norway                 | Feb 03 | 50-51 |     | Construction Contracts Act - legal enforcement                             | Dec 04 | 70-71  |
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| Resolving disputes under the CCA                          | Jun 03 | 68-69   |     | Design for good daylight                            | Jun 05 | 42-44   |     |
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| Warranties - protecting building consumers                | Aug 05 | 58      |     | <b>Linings (internal)</b>                           |        |         |     |
| Weathertight Homes Resolution Service gets more clout     | Oct 06 | 84      |     | A quick plasters often not enough                   | Aug 12 | 56      |     |
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| Will the new Building Act improve the industry?           | Aug 03 | 72      |     | Five levels of finish                               | Jan 98 | 14-16   |     |
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| A record thats not negotiable                             | Dec 14 | 76-77   | 145 | Repairing earthquake damaged wall linings           | Oct 11 | 19-20   |     |
| Alan Bickers - Building Practitioners Board Chair         | Oct 07 | 82      |     | Sound control                                       | May 98 | 17-18   |     |
| Are there enough LBPs?                                    | Apr 12 | 48-49   |     | Vapour barriers - where and when to use             | Dec 02 | 26-27   |     |
| Building officials licences                               | Dec 06 | 40-41   |     | Vapour barriers not needed in New Zealand dwellings | Aug 03 | 20-21   |     |
| Building practitioner licensing coming soon               | Aug 06 | 82-83   |     | Wall linings  | Apr 08 | 86-87   |     |
| Building Practitioners Board appointed                    | Oct 05 | 95      |     | Wall linings when installing shower over a bath     | Dec 05 | 22-23   |     |
| Certified builders and licensing                          | Dec 06 | 36-37   |     |   |        |         |     |
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| Compliants against LBPs                                   | Dec 13 | 84-85   |     | Australian/New Zealand loading Standard             | Mar 00 | 54-55   |     |
| Definitions   | Jan 99 | 12      |     | Changes to barrier loadings                         | Aug 08 | 22-25   |     |
| Licensed Building Practitioner scheme underway            | Dec 07 | 74      |     | Joining roof trusses                                | Oct 15 | 24-26   | 150 |
| Licensed building practitioners categories                | Feb 07 | 54-55   |     | Loaded dimension - a guide                          | Jun 07 | 26-28   |     |
| Licensing assessment agent and licence                    | Jun 07 | 95      |     | Loaded dimension for lintels                        | Dec 12 | 30-31   |     |
| Licensing of building practitioners                       | Dec 06 | 32-33   |     | Loaded dimnrsion for bearers                        | Aug 13 | 32      |     |
| Licensing to skill tradespeople                           | Jun 06 | 14-15   |     | Selecting joist sizes for cantilevered balconies    | Aug 07 | 20      |     |
| Maintaining skills in the LBP                             | Apr 14 | 70-71   | 141 | Understanding loads                                 | Oct 14 | 35-36   | 144 |
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| New licensing system drives training uptake               | Feb 05 | 42      |     |   |        |         |     |



## Maintenance & repairs

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| BRANZ House Condition Survey 1998/9 report                 | Jan 00 | 26-28 |     | Making a small business energy efficient     | Jun 04 | 60-61 |     |
| BRANZ house condition survey 2004                          | Apr 04 | 86-87 |     | Managing a small business                    | Jun 04 | 56-57 |     |
| BRANZ House Condition Survey summary 2005                  | Oct 06 | 61    |     | Managing the upturn                          | Dec 12 | 40-42 |     |
| Chance to build back smarter                               | Dec 13 | 60-61 |     | Measuring improvement with KPIs              | Dec 07 | 80    |     |
| Coatings and exterior painted surfaces                     | Jun 11 | 54-55 |     | Operating in hard times                      | Jun 11 | 64    |     |
| Commercial property condition survey                       | May 01 | 60-61 |     | Picking up performance                       | Dec 12 | 43-44 |     |
| Deferred maintenance costs                                 | Dec 04 | 38-39 |     | Planning for 4 weeks annual holiday          | Aug 06 | 80    |     |
| Designing for low maintenance                              | May 01 | 56-58 |     | Poor productivity needs turning around       | Jun 10 | 32-33 |     |
| Designing for low maintenance                              | May 01 | 52-54 |     | Prepare a perfect invoice                    | Feb 13 | 90    |     |
| Designing for maintenance on steep sites                   | May 01 | 58-59 |     | Provisional tax                              | Oct 06 | 76-77 |     |
| Designing to encourage maintenance                         | Dec 08 | 62-63 |     | Put your customers first                     | Aug 11 | 64    |     |
| Detailing a maintenance schedule                           | Oct 06 | 68-69 |     | Recruiting the right people                  | Oct 09 | 76-77 |     |
| Effect of roof design on maintenance                       | May 01 | 12-13 |     | Retaining good staff                         | Apr 08 | 70    |     |
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| Good riddance to damp subfloors                            | Apr 13 | 63-65 |     | Role of contractors in building productivity | Jun 10 | 40    |     |
| High maintenance buildings                                 | Apr 13 | 58-59 |     | Safety planning - keep it simple             | Jun 04 | 68-69 |     |
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| Home maintenance programme                                 | Oct 06 | 65    |     | Setting charge-out rates                     | Dec 12 | 52    |     |
| Home maintenance spending missing the mark                 | Oct 06 | 62    |     | Simple steps to better business              | Aug 12 | 60    |     |
| Home renovation - who does it and why?                     | Oct 04 | 56-57 |     | Site Safe management tools                   | Apr 06 | 70-71 |     |
| Homeowners maintenance requirements                        | Aug 10 | 31    |     | Six steps to avoid bad debt                  | Apr 10 | 63    |     |
| Houses and rentals need work                               | Apr 12 | 68-69 |     | Skills issues in Canterbury                  | Apr 14 | 76    | 141 |
| How much is done & is it enough?                           | May 01 | 8-9   |     | Staying positive during tough times          | Aug 10 | 68-69 |     |
| How well maintained are commercial properties?             | Mar 01 | 48-49 |     | Stress less                                  | Oct 12 | 87    |     |
| Keeping homes up to scratch                                | Apr 13 | 61-62 |     | Successful project management for refits     | Feb 06 | 38-39 |     |
| Maintaining a university                                   | Jun 11 | 52-53 |     | Tackling quality control                     | Oct 15 | 73-74 | 150 |
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| Maintaining passive fire protection systems                | Jun 11 | 56-57 |     | Taxed for being rewarded                     | Dec 13 | 88    |     |
| Maintenance of multi-unit dwellings                        | Dec 04 | 48-50 |     | Taxing issues                                | Apr 13 | 86-87 |     |
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| Out of sight but front of mind corrosion and deterioration | Aug 09 | 51-52 |     | Top customer service is good business        | Jun 10 | 70    |     |
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| Preventing collapse of enclosed decks                      | Jun 06 | 90-91 |     | Vehicles and plant - hire or buy?            | Jun 04 | 64-65 |     |
| Protect those weatherboards                                | Jun 12 | 19-20 |     | Whats involved in a building business        | Dec 05 | 36-37 |     |
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| Restoring fire damaged buildings                           | Feb 08 | 60-61 |     | Working with suppliers                       | Apr 13 | 87    |     |
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| Sensors for early maintenance alert                        | Dec 08 | 50-51 |     |  |        |       |     |
| Tackling common building problems                          | Feb 11 | 34-36 |     |  |        |       |     |
| Think safety during maintenance                            | Jun 11 | 60-61 |     |  |        |       |     |
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## Management

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| Be a great business leader                 | Oct 10 | 72    |     | Dry-bedded brick veneer ties tested                           | Dec 06 | 66-67 |  |
| Boom-time best practice                    | Feb 15 | 53-54 | 146 | Earthquake performance requirements with Building Act 2004    | Apr 06 | 80-81 |  |
| Boost yourself online                      | Aug 13 | 86    |     | Filling masonry cells   | Jun 04 | 17    |  |
| Bowing out profitably                      | Apr 12 | 54    |     | Flashing brick veneer infill panels                           | Feb 07 | 26-27 |  |
| Brush up your business skills              | Feb 08 | 82    |     | Flashings for masonry veneer                                  | Feb 05 | 22-23 |  |
| Build savings with KiwiSaver               | Jun 07 | 81    |     | Ground clearance and waterproofing for masonry construction   | Jun 04 | 16    |  |
| Builders better but ..                     | Jun 13 | 77    |     | Insulating single skin masonry walls                          | Jun 08 | 26-28 |  |
| Building a healthy and safe workplace      | Aug 14 | 92-93 | 143 | Keeping single-skin masonry walls dry                         | Apr 05 | 24-25 |  |
| Building better businesses                 | Jun 13 | 90-91 |     | Masonry - ground clearances/waterproofing requirements        | Aug 02 | 14-15 |  |
| Building management knowledge              | Jun 10 | 33    |     | Masonry blockwork clean-outs                                  | Oct 12 | 29-30 |  |
| Building the right structure               | Apr 14 | 92-93 |     | Masonry trade registration scheme                             | Dec 06 | 38-39 |  |
| Business tips for 2011                     | Dec 10 | 65    |     | Masonry veneer  | Nov 01 | 10-11 |  |
| Businesses and planning                    | Feb 11 | 66    |     | Masonry veneer - waterproofing at the bottom of the cavity    | Dec 02 | 15    |  |
| Chart topper                               | Dec 12 | 72-73 |     | Masonry veneer and guidance for construction in NZS 3604:1999 | Jul 99 | 18-19 |  |
| Christchurch taxing times                  | Feb 14 | 80-81 |     | Masonry veneer cavity and subfloor separation                 | Jun 05 | 28    |  |
| Construction industry performance measures | Feb 06 | 32-34 |     | Measuring moisture-resistance & capacitance meters            | Aug 02 | 42-43 |  |
| Delegate - it is in your interest          | Jun 12 | 62    |     | Plastered clay-brick veneers                                  | Jun 05 | 60-61 |  |
| Developing a basic business plan           | Apr 11 | 64    |     | Proper detailing for veneer construction                      | Jan 99 | 56    |  |
| Dispute resolution options                 | Aug 14 | 88-89 | 143 | Registered mason, what does it mean?                          | Jul 99 | 16    |  |
| Does your business stack up?               | Oct 13 | 98    |     | Restoring Oamaru stone  | Jan 00 | 50-52 |  |
| Early days of management research          | Jun 10 | 36    |     | Retrofits of unreinforced masonry buildings                   | Oct 11 | 86-87 |  |
| Employment and firm size                   | Jun 04 | 10-11 |     | Selecting wall ties   | Jan 99 | 10-11 |  |
| Improving money management                 | Dec 11 | 58    |     | Shelf angles or veneer lintels with brick veneers             | Dec 06 | 25    |  |
| Included sums                              | Aug 06 | 30    |     | Stains on brickwork   | Jul 99 | 16    |  |
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|  |        |       |     | Strapping and lining of masonry walls                         | Sep 99 | 23    |  |
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## Membranes

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| Edge detailing for membrane roofs   | Jun 12 | 25-26 |     |
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| Mastic asphalt roofs                | Jan 00 | 72    |     |
| Membranes do matter                 | Aug 13 | 48-49 |     |
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|---|--------|-------|-----|
| Moisture measurement - How wet is that?                         | Aug 10 | 58    |     |
| Adverse effects of internal moisture (tramping hut)             | Feb 03 | 16-17 |     |
| Anti-capillary gaps and drip edges                              | Jun 02 | 16-17 |     |
| Borer, a moisture problem                                       | Oct 97 | 11-12 |     |
| Concrete slab drying - understanding the measures               | Apr 08 | 25-26 |     |
| Concrete slabs drying (measuring and hygrometer use)            | Feb 06 | 58-59 |     |
| Condensation and double glazing                                 | May 98 | 45-46 |     |
| Costs of damage   | Mar 99 | 8     |     |
| Cracked brick walls   | Jul 99 | 14-15 |     |
| Design for indoor pools   | Feb 04 | 38-39 |     |
| Dispersion of construction moisture                             | Sep 00 | 35-36 |     |
| Do walls actually breathe?                                      | Dec 12 | 58-59 |     |
| Double glazing to reduce condensation                           | Mar 99 | 36    |     |
| Framing and moisture  | Apr 97 | 17-18 |     |
| Fungal decay, what is it?                                       | Mar 99 | 47    |     |
| Good riddance to damp subfloors                                 | Apr 13 | 63-65 |     |
| How wet is too wet?   | Dec 12 | 56-57 |     |
| Humidity and humanity   | Jun 13 | 84-85 |     |
| Increased understanding of indoor mould                         | Aug 02 | 48    |     |
| Indoor moisture - causes and cures                              | Dec 11 | 46-47 |     |
| Indoor pollutants   | May 98 | 28-30 |     |
| Indoor pool challenge   | Dec 12 | 64-66 |     |
| Installing correct downlights and extractor fans                | Nov 99 | 10-11 |     |
| Keeping framing spaces dry                                      | Jun 09 | 26-27 |     |
| Linings and finishes in wet areas                               | Feb 07 | 22-23 |     |
| Links between humidity levels and dust mites                    | Mar 99 | 30    |     |
| Measuring moisture content of timber framing                    | May 00 | 11    |     |
| Measuring moisture levels in concrete                           | Mar 99 | 41-43 |     |
| Mechanical ventilation  | Mar 00 | 46-47 |     |
| Moisture balance  | Dec 12 | 60    |     |
| Moisture damage, causes and results                             | Mar 99 | 24-27 |     |
| Moving through porous materials                                 | Mar 99 | 9     |     |
| Preventing damage in wet areas                                  | Feb 05 | 29    |     |
| Preventing damage in wet areas                                  | Mar 00 | 52-53 |     |
| Preventing damage in wet areas                                  | Mar 00 | 37-39 |     |
| Preventing problems in existing buildings                       | Nov 98 | 69    |     |
| Preventing problems in new buildings                            | Aug 97 | 67    |     |
| Preventing problems in skillion roofs                           | Jan 98 | 10-11 |     |
| Preventing problems in skillion roofs                           | Mar 98 | 14    |     |
| Putting mould under the microscope                              | Aug 02 | 45-46 |     |
| Relative humidity sensor  | Mar 99 | 30    |     |
| Repairing flood-damaged houses                                  | Oct 14 | 78-80 | 144 |
| Repairing flood damage  | Dec 04 | 20-22 |     |
| Research in Antarctica  | Sep 99 | 20-21 |     |
| Retrofitting paperless walls                                    | Dec 12 | 61-62 |     |
| Serious case of moisture  | Dec 11 | 50-51 |     |
| Skillion roofs and moisture content of framing                  | Jun 97 | 24-25 |     |
| Strawbale building, design guidelines                           | Sep 98 | 22    |     |
| Structural moisture performance                                 | Aug 97 | 76    |     |
| Stucco and acrylic paint  | May 98 | 20    |     |
| Subfloor moisture and damp ceilings                             | Mar 99 | 10    |     |
| The benefits of being linked in                                 | Oct 14 | 91-92 | 144 |
| Tiling wet floor areas  | Nov 98 | 70    |     |
| Timber and soft rot   | Jul 98 | 11-13 |     |
| Using moisture meters correctly                                 | Aug 10 | 60-61 |     |
| Using moisture meters for timber                                | Mar 99 | 31-34 |     |
| Vapour barriers - where and when to use                         | Dec 02 | 26-27 |     |
| Vapour barriers not needed in New Zealand dwellings             | Aug 03 | 20-21 |     |
| Ventilation study to control moisture                           | Sep 01 | 60-61 |     |
| Venting extractor fans to the outside                           | Nov 99 | 10-11 |     |
| Wall linings when installing shower over a bath                 | Dec 05 | 22-23 |     |
| Wet area (eg bathroom) performance requirements and design tips | Dec 09 | 26-28 |     |

## Mould

|  |        |       |  |
|--|--------|-------|--|
| BRANZ project on preventing mould growth | Sep 01 | 59    |  |
| Causes and solutions                     | Jul 00 | 10-11 |  |
| Designing to prevent                     | Mar 99 | 28-29 |  |
| Managing mould removal                   | Oct 13 | 96-97 |  |
| Moisture and mould growth                | Dec 10 | 26-27 |  |
| Preventing mould growth                  | Mar 00 | 42-44 |  |
| Result of moisture                       | May 98 | 28-35 |  |
| Wet areas and wood use                   | Apr 06 | 18    |  |

## Nail guns

|                           |        |     |  |
|---------------------------|--------|-----|--|
| Fixing stucco reinforcing | Jan 99 | 8-9 |  |
|---------------------------|--------|-----|--|

## New Zealand Building Code (NZBC)

|   |        |       |     |
|---|--------|-------|-----|
| 25 changes in E2/AS1 you need to know                                 | Jun 12 | 22-23 |     |
| A Code to build by  | Jun 14 | 49-50 | 142 |
| Aim higher than Code  | Dec 13 | 66-67 |     |
| Alternative solutions   | Jun 07 | 24    |     |
| Apartment sizes - role of building regulations                        | Dec 03 | 40    |     |
| Automating compliance audit   | Jun 14 | 82-83 | 142 |
| B2 Durability overview  | Jun 15 | 29-30 | 148 |
| Balconies and barriers  | Sep 99 | 44-45 |     |
| Best practice in Building Act administration                          | Jul 99 | 46-47 |     |
| Boundary walls  | Feb 15 | 8-9   | 146 |
| BRANZ expertise used in development of codes and standards            | Jul 99 | 52    |     |
| Building Code review  | Aug 06 | 98    |     |
| Building Code review looks at healthier indoor air                    | Aug 07 | 38    |     |
| Building consents   | Jul 00 | 20-21 |     |
| Catch up with fire Code changes                                       | Oct 12 | 48-49 |     |
| Change of use office-to-apartment conversions                         | Oct 03 | 62-64 |     |
| Choices that matter   | Dec 13 | 64-65 |     |
| Cladding and flashing materials selection                             | Dec 11 |       |     |
| Clause C, Fire amendments and single stairs in multi-storey buildings | Apr 06 | 46-47 |     |
| Clause E2/AS1   | Aug 04 | 57    |     |
| Clause E3 Internal Moisture, developing an Alternative Solution       | Mar 99 | 28-29 |     |
| Clause G13 Foul Water, extending plumbing                             | Jan 01 | 9-11  |     |
| Clause G13, BRANZ plumbing test facility                              | Jul 00 | 67    |     |
| Clause G4 Ventilation, apartments                                     | Jul 00 | 49-50 |     |
| Clause G6 Sound Control   | May 98 | 14-15 |     |
| Clause G6 Sound Control, apartments                                   | Jul 00 | 51-55 |     |
| Clause G7 Natural Light, apartments                                   | Jul 00 | 49-50 |     |
| Clause H1 and its future  | Feb 04 | 34-35 |     |
| Clause H1 Energy Efficiency, changes                                  | Jul 00 | 63    |     |
| Clause H1 Energy Efficiency, changes                                  | Jan 01 | 13-14 |     |
| Code changes - B1/AS1 and E2/AS1                                      | Oct 11 | 80    |     |
| Code Compliance Certificates  | Oct 97 | 13    |     |
| Compliance testing interior surface finishes                          | Oct 14 | 47-48 | 144 |
| Consents and compliance vital in landscaping construction             | Oct 02 | 28-29 |     |
| C/VM2 update  | Oct 14 | 56-57 | 144 |
| DBH engages industry to set Building Code                             | Feb 11 | 53-54 |     |
| Documentation needed for building consents                            | Dec 05 | 54-55 |     |
| E2/AS1 BRANZ seminars   | Dec 04 | 62    |     |
| E2/AS1 risk assessment  | Aug 04 | 60-62 |     |
| Essential references for house designers (list)                       | Mar 01 | 16-17 |     |
| Expectations of the NZ Building Code                                  | Apr 05 | 34-35 |     |
| Getting started with NZBC H1  | Apr 08 | 14    |     |
| H1 information for building consents                                  | Jun 08 | 22-23 |     |
| H1 insulation changes for housing                                     | Feb 08 | 32-34 |     |
| Hasty Building Code changes may slow recovery                         | Jun 11 | 14    |     |
| H1 Code compliance  | Apr 13 | 36    |     |
| How well is the Code being followed?                                  | Jul 99 | 26-27 |     |
| Impact noise through floors   | Jun 03 | 23-24 |     |
| Influence of building fabric on users health (UK Report)              | Oct 97 | 53-54 |     |
| Insulation to suspended timber floors                                 | Apr 03 | 46    |     |
| January 1998 amendments   | Jan 98 | 18-20 |     |
| Liability for natural hazard damage to buildings                      | Jan 98 | 48-49 |     |
| Licensing of building practitioners                                   | Oct 04 | 46-47 |     |
| More active role for the BIA  | Aug 03 | 73    |     |
| New insulation requirements for small buildings                       | Aug 07 | 68-69 |     |
| NZBC six years on   | May 98 | 25-26 |     |
| NZS 3604:1999, where does it fit in to the regulatory framework?      | Sep 99 | 13-14 |     |
| Occupant well-being is a Building Code issue                          | Apr 03 | 34-35 |     |
| Performance expectations of New Zealand Housing systems (research)    | Sep 99 | 74    |     |
| Producer statement  | Aug 97 | 13    |     |
| Producer statements - use & abuse                                     | Aug 02 | 26-27 |     |

|   |        |       |     |   |        |       |     |
|---|--------|-------|-----|---|--------|-------|-----|
| Producer statements - use & abuse                                       | Apr 03 | 16-17 |     | Site seismicity                                       | Jun 15 | 41-42 | 148 |
| Refresher on flashings  | Oct 04 | 76-77 |     | Sizing rafters  | Jun 14 | 34-37 | 142 |
| Review of Building Code, building control units and Unit Titles Act     | Feb 07 | 80-81 |     | Snow loadings   | Jul 99 | 29-32 |     |
| Revised code of practice  | Jun 14 | 72-73 | 142 | Solid base for slab-on-ground foundations             | Aug 05 | 26-27 |     |
| Revised fire safety approved documents                                  | May 01 | 19-20 |     | Stainless steel fasteners in coastal regions          | May 00 | 36-39 |     |
| Simple house construction document                                      | Oct 09 | 61-62 |     | Tall timber framed enclosures for metal flues         | Apr 06 | 22    |     |
| Slip resistance for paths, stairs, ramps and entries (D1 Access Routes) | Sep 99 | 50    |     | Using the 1990 and 1999 versions in the same building | Jan 00 | 19-20 |     |
|   |        |       |     | Wall framing  | Aug 05 | 18-19 |     |
| Spa pools and the regulations   | Oct 02 | 35-37 |     | Walls   | Jul 99 | 29-32 |     |
| The determination process   | Jun 11 | 66-67 |     | Washers for holding down bolts                        | May 00 | 11    |     |
| Time limits for prosecutions  | Feb 97 | 28-29 |     | Weatherboards - fixing requirements                   | Dec 04 | 34    |     |
| Understanding double glazing or IGUs                                    | Aug 07 | 70-71 |     | Where does it fit into the regulatory framework?      | Sep 99 | 13-14 |     |
| Using the NZBC H1 calculation method                                    | Apr 08 | 19-20 |     | Wind barriers and weatherboards                       | Dec 04 | 34    |     |
| What are building controls?   | Jul 99 | 51    |     | Wind pressure 101                                     | Oct 09 | 32-33 |     |
| What is a building warrant of fitness?                                  | Sep 99 | 41-42 |     | Wind zones  | May 00 | 33-35 |     |

### NZS 3602 Timber and wood-based products for use in building

|   |        |    |  |
|---|--------|----|--|
| Radiata subfloor timber must be treated   | Sep 99 | 15 |  |
| Timber treatment for roof framing         | Jun 05 | 18 |  |
| Timber treatments for roof framing        | Feb 06 | 20 |  |
| Untreated radiata pine for structural use | Nov 99 | 15 |  |
| Wet areas and wood use                    | Apr 06 | 18 |  |

### NZS 3604:1999 Timber framed buildings

|   |        |         |     |
|---|--------|---------|-----|
| Amendments (2000) - a guide                     | Mar 01 | 22-23   |     |
| Anchor piles under NZS 3604:1999                | Jan 00 | 22      |     |
| Bolted connections                              | Apr 03 | 19      |     |
| Bottom plate anchors                            | Feb 08 | 22-23   |     |
| Bottom plate fixings                            | Oct 02 | 18      |     |
| Bracing design                                  | Jul 99 | 29-32   |     |
| Bracing light timber-framed roofs               | Dec 04 | 24-25   |     |
| Bracing loads under 3604                        | Jul 01 | 6       |     |
| Calculating bracing demands under NZS 3604:1999 | Nov 99 | 41-44   |     |
| Cantilevered decks - sizing of joists           | Oct 02 | 14      |     |
| Changes to the 1999 Standard                    | Jul 99 | 29-32   |     |
| Constructing timber outriggers                  | Jun 14 | 39-40   | 142 |
| Cutting mesh when cutting control joints        | Oct 04 | 35      |     |
| Dealing with piles                              | Feb 05 | 16-17   |     |
| Deck design loads                               | Dec 06 | 17-18   |     |
| Deck/wall junction detailing                    | Oct 02 | 16-17   |     |
| Decks treated as subfloor framing               | Nov 99 | 24      |     |
| Determining your wind zone                      | Apr 04 | 42      |     |
| Durability changes                              | Jul 99 | 34-36   |     |
| Engineering basis of NZS 3604                   | May 01 | 48-50   |     |
| Engineering basis of NZS 3604                   | Jun 07 | 106-107 |     |
| Expansive clays                                 | Sep 99 | 12      |     |
| Fixings in subfloor areas                       | Jul 00 | 23      |     |
| Floor deflection                                | Aug 04 | 42-43   |     |
| Floors  | Jul 99 | 29-32   |     |
| Focus on building envelope                      | Jul 99 | 41-42   |     |
| Foundation and subfloor bracing                 | Jul 99 | 29-32   |     |
| Foundations for relocated buildings             | Jul 00 | 56-57   |     |
| Framing - securing against uplift               | Dec 02 | 25      |     |
| Framing and calculating the loaded dimension    | Nov 00 | 12-15   |     |
| Granular fill beneath concrete slabs            | Apr 04 | 84-85   |     |
| Guidance for the construction of masonry veneer | Jul 99 | 18-19   |     |
| Key changes to new standard                     | Jul 99 | 29-32   |     |
| Lintels   | Oct 07 | 22      |     |
| Lintels and beams online calculator             | Feb 09 | 24      |     |
| Load paths and frame design                     | Aug 04 | 48-49   |     |
| Loaded dimension - a guide                      | Jun 07 | 26-28   |     |
| Locating walls                                  | Jun 15 | 26-27   | 148 |
| Maximum slab dimension amended                  | Sep 01 | 22-23   |     |
| Maximum strength of house bracing walls         | Feb 08 | 86-87   |     |
| NZS 3604 is being amended                       | Jun 06 | 100     |     |
| NZS 3604 review preparation                     | Aug 09 | 60-61   |     |
| Periphery roof areas                            | Jun 08 | 16-17   |     |
| Plywood as wind barriers                        | Jan 00 | 14-15   |     |
| Post connections                                | Jul 99 | 20      |     |
| Post connections                                | Jul 99 | 29-32   |     |
| Priming laps on uncoated metal roofing          | Jan 00 | 23      |     |
| Protection of fixings on piles                  | May 01 | 14      |     |
| Radiata pine - is it getting weaker             | Oct 02 | 19      |     |
| Roof framing                                    | Jul 99 | 29-32   |     |
| Securing roofs against wind uplift              | Jun 06 | 29      |     |
| Securing top plates                             | Apr 04 | 17      |     |
| Site requirements                               | Jul 99 | 29-32   |     |

### NZS 3604:2011 Timber-framed buildings

|  |        |       |     |
|--|--------|-------|-----|
| Beam and truss uplifts                   | Aug 15 | 38    | 149 |
| Bottom plate anchors                     | Dec 13 | 29-30 |     |
| Bracing for monopitch roofs              | Dec 14 | 41-42 | 145 |
| Bracing for steps in floors and ceilings | Jun 13 | 40-41 |     |
| Bracing for suspended floors             | Jun 13 | 38    |     |
| Bracing using NZS 3604:2011 - part 1     | Aug 12 | 29-30 |     |
| Building on the edge                     | Apr 12 | 24    |     |
| Built-up members                         | Jun 13 | 33-34 |     |
| Cantilevered joists                      | Dec 11 | 21-22 |     |
| Concrete foundation wall reinforcing     | Dec 13 | 24-27 |     |
| Connecting top plates                    | Oct 13 | 29-31 |     |
| Corrosion zones                          | Jun 11 | 38    |     |
| Engineered wood products now included    | Jun 11 | 46    |     |
| Extra high wind zone                     | Feb 12 | 26-27 |     |
| Fixing it right first time               | Aug 14 | 29-30 | 143 |
| Fixing of wall top plates                | Aug 14 | 32-33 | 143 |
| Fixings rationalised                     | Jun 11 | 45    |     |
| Holes and notches                        | Jun 13 | 64-65 |     |
| Key changes in NZS 3604:2011             | Jun 11 | 35    |     |
| Lintel fixing                            | Oct 13 | 33-34 |     |
| Loaded dimension for lintels             | Dec 12 | 30-31 |     |
| NZS 3604 committee recognised            | Jun 11 | 47    |     |
| Rafter fixings                           | Apr 14 | 26-28 |     |
| Revised wind and earthquake bracing      | Jun 11 | 36    |     |
| Roof bracing                             | Feb 13 | 36-38 |     |
| Roof framing and trusses                 | Jun 11 | 44    |     |
| Sizing of top plates                     | Oct 14 | 26-29 | 144 |
| Snow loading                             | Jun 11 | 37    |     |
| Spacing those bracing lines              | Aug 15 | 31-31 | 149 |
| Stud substitution                        | Dec 14 | 36-38 | 145 |
| Subfloor bracing                         | Oct 12 | 38-41 |     |
| To strap or not to strap?                | Aug 12 | 16-17 |     |
| Topographic zones                        | Oct 13 | 36-37 |     |
| Trimming studs                           | Apr 14 | 30-31 | 141 |
| Veranda beam fixings                     | Aug 13 | 25    |     |
| Wall bracing                             | Dec 12 | 32-36 |     |
| Why revise NZS 3604?                     | Jun 11 | 34    |     |
| Wind zones and NZS 3604                  | Feb 12 | 24-25 |     |

### NZS 4203:1992 General structural design and design loadings for buildings

|                                   |        |       |  |
|-----------------------------------|--------|-------|--|
| Is it sufficient for hilly sites? | Nov 98 | 48-50 |  |
|-----------------------------------|--------|-------|--|

### NZS 4218 Energy efficiency

|   |        |       |  |
|---|--------|-------|--|
| Changes to domestic regulations             | Jul 98 | 19-21 |  |
| Floor insulation requirements               | Jan 98 | 41-42 |  |
| Insulation tools                            | Aug 04 | 44-45 |  |
| Preventing energy waste from hot water      | Jan 01 | 13-14 |  |
| Thermal insulation changes in NZS 4218:2009 | Oct 09 | 24-25 |  |

### Paint

|   |        |       |  |
|---|--------|-------|--|
| Brushes with paint  | Aug 12 | 86-87 |  |
| Ceramic paints - do they insulate                           | Jul 98 | 82    |  |
| Choosing coatings for concrete, plaster, steel and plastics | Jan 99 | 37-38 |  |
| Coatings for claddings                                      | Jun 05 | 56-58 |  |
| Coatings for claddings                                      | Jun 06 | 52-53 |  |
| Coatings for claddings                                      | Jun 07 | 70    |  |
| Colour selection and durability of paint                    | Jun 03 | 20-22 |  |
| Exterior paint on timber and moisture problems              | Mar 98 | 16-17 |  |
| Lead-based paint removal                                    | Oct 06 | 64    |  |
| Lifting from plaster  | Jan 98 | 14    |  |

|   |        |       |   |        |       |
|---|--------|-------|---|--------|-------|
| Paint advice on Internet site   | Mar 01 | 66    | International research                            | Jan 01 | 45-46 |
| Paint peeling from plaster ceiling  | May 01 | 14    | Mixing G13/AS1 and AS/NZS 3500                    | Nov 01 | 66-67 |
| Paints, corrosion and the Auckland Harbour Bridge                         | Feb 06 | 76-77 | National qualification for inspectors             | Mar 98 | 31    |
| Protecting steel structures   | Mar 01 | 14-15 | New editions of G12 and G13                       | Apr 02 | 60-65 |
| Re-coating concrete roof tiles  | May 99 | 13-14 | Pipe insulation                                   | Aug 11 | 24    |
| Stucco and preventing moisture  | May 98 | 20    | Pipe penetrations through claddings               | Dec 07 | 26-27 |
| Timber shape contributes to life of paint coatings                        | May 00 | 42-43 | Plumbing product certification                    | Nov 01 | 68-69 |
|   |        |       | Polybutylene systems                              | Jun 97 | 66    |
| <b>Particleboard</b>  |        |       | Pressure relief valves                            | Apr 02 | 28    |
| Conditioning  | Oct 97 | 16-17 | Preventing burst pipes                            | Apr 97 | 20-21 |
| Flooring  | May 98 | 70    | Preventing energy waste from hot water            | Jan 01 | 13-14 |
| Flooring in wet areas and the NZBC  | Sep 98 | 19    | Preventing legionella in solar only water system  | Apr 06 | 27    |
| Flooring over concrete slabs and preventing moisture problems (Australia) | Nov 98 | 53-54 | Public conveniences / toilets                     | Feb 07 | 94-95 |
|   | May 98 | 28-30 | Safe trays and isolating valves                   | Dec 03 | 70    |
| Indoor pollutants   | May 98 | 28-30 | Sanitary pumps                                    | Jan 01 | 9-11  |
|   |        |       | Seismic restraint                                 | Jan 01 | 35-38 |
| <b>Partnering</b>   |        |       | Sewers and earthquake safety                      | Jan 01 | 39-40 |
| Cooperation in construction   | Jul 98 | 40-41 | Solar water heating                               | Apr 03 | 52-53 |
| Lifting the industrys vision  | Jun 04 | 8-9   | Standard for seismic restraint, draft             | Jan 01 | 35-38 |
|   |        |       | Water pipe failures                               | Dec 06 | 46-47 |
| <b>Piles</b>  |        |       | Water saving measures when building               | Apr 07 | 64    |
| Constructing a braced pile  | Apr 12 | 16    | Water usage                                       | Aug 04 | 72    |
| Dealing with piles  | Feb 05 | 16-17 |   |        |       |
| Deck bracing and pile and footing design                                  | Aug 11 | 17-19 | <b>Pole frame houses</b>                          |        |       |
| Getting closure   | Oct 14 | 32-33 | Corrosion of fasteners and CCA treated timber     | Feb 97 | 17    |
| Testing timber piles under earthquake and wind loads                      | Mar 98 | 60-61 | Foundations on steep sites                        | Nov 99 | 22-23 |
|   |        |       |   |        |       |
| <b>Plaster see Stucco, Paint</b>  |        |       | <b>Prefabrication</b>                             |        |       |
| A quick plasters often not enough   | Aug 12 | 56    | Complete buildings                                | Dec 13 | 80-82 |
| Modern take on an old favourite   | Jun 12 | 54    | Does prefab stack up?                             | Aug 13 | 68-69 |
| Predicting plastics durability  | Aug 15 | 55-56 | Fresh thinking                                    | Aug 14 | 42-45 |
|   |        | 149   | Getting to grips with prefab                      | Apr 13 | 76-78 |
| <b>Plasterboard</b>   |        |       | Going on a gamba                                  | Apr 14 | 85-87 |
| Causes and prevention of peaking and cracking                             | Jan 99 | 39-41 | Homes that go further                             | Dec 13 | 71-72 |
| Competition and substitution  | May 98 | 54-56 | Hybrid best of both worlds                        | Oct 13 | 89-90 |
| Corrosion from unwashed marine sands                                      | Apr 97 | 36-37 | Innovation and prefabs                            | Feb 12 | 28-29 |
| Corrosion from unwashed marine sands                                      | Mar 98 | 13    | Modular building - a model method                 | Aug 13 | 71-73 |
| Exploding hot water cylinder  | Jan 01 | 12-13 | Plus side of prefab panels                        | Jun 13 | 80-82 |
| Fire dampers for plasterboard walls                                       | Aug 97 | 51    | Precast becomes popular                           | Feb 12 | 86-87 |
| Peaking   | Apr 97 | 52-53 | Precast in particular, with Q Theatre             | Jun 14 | 68-70 |
| Penetrations in fire-rated plasterboard                                   | Apr 12 | 17-18 | Prefab set to grow                                | Aug 12 | 72    |
| Popping nails   | Jun 97 | 24-25 | Savings from going digital                        | Oct 15 | 62-64 |
| Post-earthquake plasterboard repairs                                      | Aug 12 | 19-20 | Smarter ways to build homes                       | Apr 13 | 70-71 |
|   |        |       | Sorting out peak performance                      | Aug 14 | 59-60 |
|   |        |       | Time to change                                    | Jun 14 | 80-81 |
| <b>Plastics</b>   |        |       | <b>Pre-purchase inspections</b>                   |        |       |
| Comparing weathering of plastics  | Mar 01 | 43    | House buying                                      | Nov 00 | 10-11 |
| Plasticiser migration - PVC cabling & EPS insulation                      | Jul 01 | 26-27 | House buying                                      | Nov 98 | 35    |
| PVC claddings and NZ conditions   | Sep 98 | 38-39 | Masonry settlement (case study)                   | Jul 99 | 14-15 |
| Wood-plastic composites - flexible materials for the future               | Oct 02 | 54-55 | Property inspections                              | Feb 06 | 78    |
|   |        |       | <b>Procurement</b>                                |        |       |
| <b>Plumbing</b>   |        |       | Better procurement = better business              | Dec 11 | 34-35 |
| AAVs - is there a compliance issue  | Oct 02 | 76    | Is tendering really the way to go?                | Aug 14 | 76-77 |
| Adding an ensuite   | Jan 01 | 9-11  | Managing cost escalation risk                     | Jun 15 | 72-73 |
| An ounce of prevention - design for practicality - what to use            | Dec 02 | 48    | Procurement challenges                            | Dec 13 | 54-55 |
| Backflow prevention   | Jan 01 | 42-44 | Public-private partnership lessons                | Oct 12 | 72-73 |
| Backflow prevention (G12)   | Apr 02 | 60-62 | <b>Producer statements</b>                        |        |       |
| Backflow prevention conference  | Jul 00 | 64    | Alert but not alarmed                             | Feb 14 | 54-55 |
| Beware non-compliant products   | Aug 13 | 42    | Are they reliable?                                | Jan 01 | 25-26 |
| Bomb in the cupboard (letter)   | May 01 | 7     | Not personally responsible                        | Jun 14 | 88-89 |
| BRANZ Plumbing and Drainage Guide   | Jul 99 | 58    | NZBC requirements                                 | Aug 97 | 13    |
| BRANZ plumbing test facility  | Jul 00 | 67    | Product technical statements                      | Oct 11 | 79    |
| BRANZ test laboratory recognised  | Jul 01 | 47    | Products that stand the test                      | Oct 15 | 79-80 |
| Choosing solar water heating  | Apr 05 | 74-75 | Smarter ways to build homes                       | Apr 13 | 70-71 |
| Controlling noise from building services                                  | Jul 99 | 61-63 | <b>Product certification</b>                      |        |       |
| Cost effectiveness of solar water heaters                                 | Feb 06 | 72    | BRANZ and product certification                   | Aug 09 | 76    |
| Designing a sustainable wastewater system                                 | Feb 09 | 78-79 | Cladding confidence                               | Oct 12 | 68    |
| Designing structures to fit the plumbing                                  | Mar 00 | 18-20 | CodeMark confidence                               | Apr 10 | 39    |
| Domestic water usage  | Apr 07 | 57    | Product assurance                                 | Apr 11 | 54-55 |
| Drinking water from the roof  | Jan 01 | 15-16 | Product certification getting closer              | Aug 08 | 37    |
| Drinking water from the roof  | Dec 04 | 68    | Product certification under the Building Act 2004 | Dec 05 | 57    |
| Electric hot water invention  | Jun 06 | 110   |   |        |       |
| Emergency water supplies  | Aug 05 | 74-75 |   |        |       |
| Energy regulations for hot water cylinders                                | Jun 02 | 66-67 |   |        |       |
| Guide to low-cost domestic sprinkler system                               | Sep 01 | 38-39 |   |        |       |
| History of toilets  | Dec 06 | 86-87 |   |        |       |
| HWC installations - low and high pressure systems                         | Aug 02 | 74-75 |   |        |       |
| Installing PVC pipe   | Mar 00 | 10-11 |   |        |       |

## Productivity

|   |        |       |     |
|---|--------|-------|-----|
| A skilful strategy                      | Dec 12 | 74    |     |
| Better procurement = better business    | Dec 11 | 34-35 |     |
| Boom-time best practice                 | Feb 15 | 53-54 | 146 |
| Building a productive future            | Dec 11 | 30-31 |     |
| Building heads for a high               | Oct 15 | 84-85 | 150 |
| Business boom                           | Dec 14 | 82-83 | 145 |
| Complete buildings                      | Dec 13 | 80-82 |     |
| Gauging productivity                    | Aug 14 | 86-87 | 143 |
| Hybrid best of both worlds              | Oct 13 | 89-90 |     |
| Improving construction logistics        | Feb 13 | 80-81 |     |
| Improving, but no time to rest!         | Aug 13 | 74-75 |     |
| Knowledge will lead to a action         | Apr 12 | 64-65 |     |
| Learning from innovation                | Aug 15 | 86-87 | 149 |
| Looking further afield                  | Dec 11 | 40    |     |
| Measuring productivity                  | Dec 11 | 36-37 |     |
| Over the horizon                        | Jun 14 | 86    | 142 |
| Peak performance                        | Feb 13 | 66-67 |     |
| Picking up performance                  | Dec 12 | 43-44 |     |
| Skilful paths to workplace productivity | Dec 11 | 32-33 |     |
| Small builder workflow                  | Dec 12 | 46-47 |     |
| Smart work                              | Oct 12 | 78    |     |
| The bigger picture                      | Apr 12 | 8     |     |
| The era of productivity                 | Oct 12 | 8     |     |
| Thinking lean                           | Oct 13 | 92-93 |     |
| Valuing time savings                    | Aug 12 | 71    |     |

## Quantitative risk analysis

|   |        |       |  |
|---|--------|-------|--|
| Assessing the probability and consequences of slope failure | May 99 | 39-40 |  |
| Assessing the risk  | Oct 02 | 33    |  |

## Records

|   |        |       |     |
|---|--------|-------|-----|
| Accommodation changes                     | Jun 14 | 92-93 | 142 |
| Developing an asset management plan       | Apr 02 | 48-49 |     |
| Visual recording of construction projects | Jun 04 | 58-59 |     |

## Recycling see also Environment, Construction waste

|   |        |       |  |
|---|--------|-------|--|
| Easy ways to reduce waste on site             | Apr 13 | 29-30 |  |
| Good resource use in the building industry    | Apr 05 | 54-56 |  |
| Life cycle assessment                         | Feb 03 | 46-47 |  |
| National recycling symbols                    | Feb 04 | 76    |  |
| Reclaiming value from building industry waste | Mar 01 | 32-34 |  |
| Recycled concrete as aggregate                | Jul 00 | 62-63 |  |
| Recycling building materials                  | Apr 97 | 22-23 |  |
| Recycling building materials                  | Nov 00 | 56    |  |
| Recycling concrete                            | Apr 97 | 40-41 |  |
| Reducing construction waste and recycling     | Nov 98 | 56-57 |  |
| Reducing construction waste and recycling     | Nov 99 | 74    |  |
| Reducing construction waste and recycling     | Nov 00 | 56    |  |
| Relocating homes                              | Jan 02 | 36-37 |  |
| Tauranga waste study                          | Oct 04 | 62    |  |
| There is value in building waste              | Feb 13 | 70-71 |  |

## Renovations

|  |        |       |  |
|--|--------|-------|--|
| Altering heritage buildings                            | Jan 00 | 34-36 |  |
| Apartments that do not make the grade                  | Apr 06 | 58-60 |  |
| Bog standard sustainable renovation                    | Jun 10 | 84-85 |  |
| BRANZ Renovate books and website                       | Feb 11 | 42    |  |
| BRANZ renovation project                               | Feb 10 | 40-41 |  |
| Builders for Housing New Zealand need to get it right  | Apr 06 | 62-63 |  |
| Building consent or not for renovations                | Feb 10 | 23    |  |
| Consenting renovation work                             | Feb 10 | 21-22 |  |
| Earthquake-prone buildings                             | Dec 08 | 80-81 |  |
| Facilities for people with disabilities                | Jan 00 | 38-42 |  |
| Fix up, warm up  | Oct 12 | 82    |  |
| Fixing common renovation building problems             | Feb 11 | 15-16 |  |
| Focus on sustainable renovations                       | Apr 08 | 42-43 |  |
| Getting cozy in Queenstown                             | Apr 09 | 70-71 |  |
| Good design, good process                              | Feb 11 | 32    |  |
| HI and renovations                                     | Feb 09 | 25-26 |  |
| HI compliance for renovations                          | Feb 11 | 22-23 |  |
| Health and safety standards in old houses              | Jan 00 | 45-48 |  |
| Home renovation - who does it and why?                 | Oct 04 | 56-57 |  |
| Homeowners prioritise comfort over cost in renovations | Feb 10 | 38-39 |  |
| Insulating for comfy winters                           | Jun 09 | 70-71 |  |
| Insurance and what it covers                           | Jan 00 | 43    |  |
| Like for like - what does it mean                      | Apr 08 | 22-23 |  |

|   |        |       |     |
|---|--------|-------|-----|
| Maintaining and retrofitting houses               | Apr 08 | 31-32 |     |
| Moving house                                      | Feb 11 | 19-20 |     |
| Noise flanking                                    | Apr 06 | 92-93 |     |
| Opportunity knocks                                | Aug 12 | 54-55 |     |
| Papakowhai renovation offer insights              | Apr 09 | 64-65 |     |
| Preplanning delivers value at BRANZ               | Dec 11 | 26-27 |     |
| Regulations for change of use                     | Jan 02 | 33-34 |     |
| Relocating homes                                  | Jan 02 | 36-37 |     |
| Renovate or demolish                              | Apr 08 | 33    |     |
| Renovate or replace - environmental impacts       | Jun 07 | 59    |     |
| Renovate to reboot the economy                    | Jun 09 | 10    |     |
| Renovating for sustainability in Papakowhai       | Apr 08 | 34-35 |     |
| Repairing flood-damaged houses                    | Oct 14 | 78-80 | 144 |
| Research examines villa alterations               | Feb 10 | 33    |     |
| Responses to HomeSmart renovation project         | Feb 11 | 40-41 |     |
| Restoring heritage double-hung windows            | Apr 10 | 16-17 |     |
| Restoring the Civic Theatre in Auckland           | Jan 00 | 30-33 |     |
| Retrofit and renovation trends                    | Feb 10 | 32    |     |
| Retrofits and sustainability                      | Aug 09 | 34    |     |
| Retrofitting a home sprinkler system - case study | Feb 10 | 42-43 |     |
| Retrofitting Aorangi Houses, Wellington           | Feb 11 | 46-47 |     |
| Retrofitting blown-in wall insulation             | Jun 13 | 36    |     |
| Retrofitting double glazing                       | Apr 08 | 36-37 |     |
| Retrofitting flexible wall underlay               | Jun 10 | 24    |     |
| Retrofitting for cosy walls                       | Apr 12 | 70-71 |     |
| Retrofitting for southern winters                 | Apr 08 | 38-40 |     |
| Re-using heritage buildings                       | Jan 02 | 39    |     |
| Sustainable retrofit on a fixed budget            | Feb 10 | 36-37 |     |
| Tackling common building problems                 | Feb 11 | 34-36 |     |
| To match existing means exactly that              | Feb 10 | 34-35 |     |
| Turning offices into homes                        | Apr 08 | 41    |     |
| Updating pensioner housing for future needs       | Feb 09 | 72-73 |     |
| Upfront planning key for renovations              | Feb 11 | 30-31 |     |
| Waste diversion during deconstruction             | Jun 08 | 72-74 |     |
| Wellington cottage wins supreme renovation award  | Feb 11 | 44    |     |
| What to look for when renovating                  | Jan 00 | 17-18 |     |

## Research see also BRANZ Research

|  |        |         |     |
|--|--------|---------|-----|
| A good idea is not enough                                    | Jun 10 | 54-55   |     |
| A sound improvement  | Jun 12 | 46-47   |     |
| Accuracy of daylight assessment                              | Jun 11 | 72-73   |     |
| Airborne allergen research                                   | Oct 08 | 64-65   |     |
| Automating compliance audit                                  | Jun 14 | 82-83   | 142 |
| Benchmarking water use in office buildings                   | Jun 10 | 80-81   |     |
| Best practice study tour to Britain                          | Apr 07 | 76-77   |     |
| Big gains from passive design                                | Aug 15 | 79-80   | 149 |
| BIM adoption picking up                                      | Oct 14 | 66-67   | 140 |
| Biomimicry - using biology to inspire design                 | Feb 07 | 90-91   |     |
| BRANZ and healthy housing research                           | Feb 05 | 60      |     |
| BRANZ industry research needs survey 2002                    | Oct 02 | 66-67   |     |
| BRANZ industry research needs survey 2004                    | Dec 04 | 78-79   |     |
| BRANZ wins FRST contracts                                    | Oct 03 | 84      |     |
| BRANZ-discovering weathertightness performance limits        | Oct 02 | 74      |     |
| British construction industry best practice study tour       | Feb 07 | 76-77   |     |
| Build environment research strategy                          | Aug 02 | 76-78   |     |
| Building management knowledge                                | Jun 10 | 33      |     |
| Building Research industry needs survey 2005                 | Oct 05 | 100-101 |     |
| Building Research industry needs survey 2006                 | Dec 06 | 76-78   |     |
| Building world came to NZ (CIB Congress)                     | May 01 | 29      |     |
| Chart topper   | Dec 12 | 72-73   |     |
| CLT is seismic retrofits                                     | Feb 15 | 70-71   | 146 |
| Commercial building use                                      | Feb 13 | 82      |     |
| Concrete curing compounds                                    | Feb 03 | 70-71   |     |
| Construction industry performance measures                   | Feb 06 | 32-34   |     |
| Creating a responsive industry                               | Apr 07 | 74      |     |
| Daylighting in schools                                       | Aug 05 | 78      |     |
| Design prediction of wind-induced building motion            | Apr 09 | 62-63   |     |
| Distributing lateral loads in timber-framed buildings        | Dec 07 | 78-79   |     |
| Drivers for resource efficiency                              | Aug 11 | 54-55   |     |
| Dunedins earthquake-prone buildings                          | Feb 13 | 59-61   |     |
| Durability of boron-treated radiata                          | Apr 09 | 36-37   |     |
| Eco Design Advisors sustainable advice valued                | Jun 11 | 74-75   |     |
| Eco-building. Design and build to the environment            | Apr 06 | 64-65   |     |
| Effect of earthquakes on average NZ house                    | Feb 03 | 72-73   |     |
| Energy usage   | Dec 04 | 76      |     |
| Experimental fire tests of two-way reinforced concrete slabs | Aug 03 | 64-66   |     |
| Expert help at hand  | Jun 10 | 61      |     |

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|---|--------|---------|---|--|--------|-------|-----|
| Factory built housing in Canada   | Aug 06 | 104     | The national value case for saving water                  | Apr 08   | 50-51  |       |     |
| Fire protection of traditional Maori buildings                                      | Oct 02 | 70      | The power of suburbia                                     | Apr 13   | 74-75  |       |     |
| Fire research roadmap plots the way ahead   | Dec 11 | 67      | The road to recovery                                      | Dec 13   | 57-58  |       |     |
| Fire workshop sparks research   | Dec 10 | 62      | Thermal comfort inside and out                            | Feb 03   | 30-32  |       |     |
| Five drivers  | Apr 14 | 64-65   | 141   | UK architects: the female brain drain                | Oct 06 | 94-95 |     |
| Fix up, warm up   | Oct 12 | 82      | UK new home buyer satisfaction                            | Apr 11   | 34-36  |       |     |
| Focus on sustainable renovations  | Apr 08 | 42-43   | Unreinforced clay brick masonry buildings                 | Oct 11   | 50-52  |       |     |
| FRST industry survey  | Dec 06 | 74      | Urban design research in NZ                               | Oct 04   | 52-53  |       |     |
| Fungi in leaky homes  | Apr 09 | 38      | Ventilation of wall cavities research                     | Dec 06   | 68     |       |     |
| Future skill needs for the building industry  | Aug 06 | 102-103 | Warm, dry houses are healthier                            | Oct 08   | 59-60  |       |     |
| Guiding reinforced concrete seismic retrofits                                       | Aug 15 | 58-59   | 149   | Warmer houses reduce childrens asthma                | Aug 07 | 40-41 |     |
| Healthy home research wins top science prize  | Feb 15 | 13      | 146   | Water use - drivers and savings                      | Dec 12 | 68-69 |     |
| Heating plus insulation but homes still too cold                                    | Oct 08 | 62-63   | Where sustainability fits in homeowners choices           | Feb 06   | 74-75  |       |     |
| HEEP year seven results   | Dec 03 | 72-73   | Why do builders innovate?                                 | Jun 10   | 52-53  |       |     |
| Helping Christchurch build back better  | Oct 11 | 62-63   | Wind-induced motion of tall buildings                     | Feb 13   | 78-79  |       |     |
| High density urban environments   | Apr 07 | 39-40   |   |  |        |       |     |
| Homeowners prioritise comfort over cost in renovations                              | Feb 10 | 38-39   |   |  |        |       |     |
| How do apartments measure up?   | Apr 10 | 72-73   | <b>Resilience</b>   |  |        |       |     |
| How do people really use their homes  | Dec 10 | 76-77   | Aged vulnerable to extreme events                         | Jun 15   | 62-63  | 148   |     |
| How friendly are building user guides?  | Oct 12 | 76      | Building resilience                                       | Jun 15   | 46     | 148   |     |
| How safe and healthy is a home?   | Oct 08 | 66-67   | Built to last   | Apr 14   | 45-46  | 141   |     |
| How to improve energy efficiency in NZ homes  | Oct 02 | 72      | Damaging Northland storm                                  | Jun 15   | 47-48  | 148   |     |
| Increase in collaborative procurement like partnering, joint ventures and alliances |        |         | Detailing cladding penetrations                           | Jun 15   | 33-34  | 148   |     |
|   | Dec 06 | 70-71   | Five drivers  | Apr 14   | 64-65  | 141   |     |
| Industry research-needs survey 2003   | Oct 03 | 80-81   | Hazardous work  | Apr 14   | 66-67  | 141   |     |
| Information missing in sustainable housing  | Aug 08 | 84-85   | Is it worth it?   | Apr 14   | 56-57  | 141   |     |
| Insight into site safety  | Dec 14 | 88-89   | 145   | Protecting properties against floods                 | Jun 15 | 50-51 | 148 |
| Invention and innovation in the building sector                                     | Dec 08 | 44-45   | Resilience costs  | Apr 14   | 54-55  | 141   |     |
| Is tendering really the way to go?  | Aug 14 | 76-77   | 143   | Resilient building design                            | Apr 14 | 48-50 | 141 |
| Issues facing subcontractors  | Oct 15 | 82-83   | 150   | Revisit your disaster recovery plan                  | Jun 15 | 96-97 | 148 |
| Learning from innovation  | Aug 15 | 86-87   | 149   | RiskScape informs decisions                          | Jun 15 | 55-56 | 148 |
| Learning styles in the building industry  | Jun 06 | 94-95   | Sector lacks resilience                                   | Jun 15   | 65-66  | 148   |     |
| Lessons in self-managing a rebuild  | Aug 14 | 82-83   | 143   | Staying home   | Oct 13 | 71-72 |     |
| Let the sun shine on Christchurch   | Feb 13 | 68-69   | Suspended ceilings  | Jun 15   | 58-60  | 148   |     |
| Looking further than the initial dollars  | Aug 07 | 52-54   | The cost of earthquake resilience                         | Dec 14   | 68-70  | 145   |     |
| Magazines shape our homes   | Jun 06 | 96-97   | Weathering the weather                                    | Jun 15   | 86-87  | 148   |     |
| Measuring improvement with KPIs   | Dec 07 | 80      | What is resilience?                                       | Apr 14   | 44     | 141   |     |
| National value case for sustainable housing innovations                             | Feb 08 | 92-93   | Your buildings resilience                                 | Apr 14   | 51-53  | 141   |     |
| New connections for LVL elbow joints  | Oct 03 | 78-79   |   |  |        |       |     |
| New cooperative construction research centre in Australia                           | May 01 | 72      | <b>Resource Management Act 1991 (RMA)</b>                 |  |        |       |     |
| New framework for Government research investment                                    | Jul 99 | 91      | Consents and compliance vital in landscaping construction | Oct 02   | 28-29  |       |     |
| New Zealand housing sector in 2030  | Jun 06 | 62      | Improving the RMA   | Oct 04   | 71     |       |     |
| Noise flanking  | Apr 06 | 92-93   | Site managers' personal liability and the Opuha Dam case  | Jul 98   | 42-43  |       |     |
| Opportunity knocks  | Aug 12 | 54-55   | Time limits for prosecutions                              | Feb 97   | 28-29  |       |     |
| Optimise operation to reduce impact - LCA Waitakere NOW Home                        |        |         |   |  |        |       |     |
|   | Dec 09 | 45-46   | <b>Retaining walls</b>                                    |  |        |       |     |
| Paints, corrosion and the Auckland Harbour Bridge                                   | Feb 06 | 76-77   | Draining of retaining wall                                | Oct 02   | 42-43  |       |     |
| Papakowhai renovation offer insights  | Apr 09 | 64-65   | Retaining walls design and building                       | Oct 10   | 25-26  |       |     |
| Peak performance  | Feb 13 | 66-67   | When do you need a consent?                               | Oct 02   | 12-13  |       |     |
| Plug the gaps   | Aug 15 | 82-83   | 149   |  |        |       |     |
| Profiling new home-buyers   | Feb 14 | 61-62   | 140   | <b>Retirement housing</b>                            |        |       |     |
| Real-world research   | Jun 14 | 8       | 142   | Builders helping older people stay independent       | Jun 06 | 66-67 |     |
| Reducing noise transfer   | Aug 15 | 73-74   | 149   | Designing housing for older people                   | Jun 06 | 64-65 |     |
| Regenerative design for the future  | Dec 09 | 68-69   | Export opportunities                                      | Nov 00   | 25-27  |       |     |
| Renovating for sustainability in Papakowhai   | Apr 08 | 34-35   | Retirement villages outlook                               | Jun 02   | 6-7    |       |     |
| Research examines villa alterations   | Feb 10 | 33      | Trends for the future                                     | Jul 00   | 30-36  |       |     |
| Research shows training = safer construction sites                                  | Aug 08 | 68-69   |   |  |        |       |     |
| Research strategy   | Jun 13 | 76      | <b>Roading</b>  |  |        |       |     |
| Retrofit net zero-energy commercial buildings                                       | Aug 11 | 56-57   | Two firsts for NZ highway construction (Otira Gorge)      | May 01   | 30-31  |       |     |
| Retrofits of unreinforced masonry buildings   | Oct 11 | 86-87   |   |  |        |       |     |
| Retrofitting double glazing   | Apr 08 | 36-37   | <b>Roofs see also Skillion roofs, Membranes</b>           |  |        |       |     |
| Retrofitting for southern winters   | Apr 08 | 38-40   | Beam and truss uplifts                                    | Aug 15   | 38     | 149   |     |
| Risk-based structural fire design   | Oct 14 | 53-54   | 144   | Bracing for monopitch roofs                          | Dec 14 | 41-42 | 145 |
| Roofing that generates electricity and heat   | Apr 08 | 72-73   | Bracing light timber-framed roofs                         | Dec 04   | 24-25  |       |     |
| Rule changes  | Feb 13 | 46      | BRANZ weathertightness poster - roof detailing            | Oct 03   | 22     |       |     |
| Secondary glazing - how well does it work?  | Feb 10 | 46-47   | Cladding selection guide                                  | Sep 98   | 53     |       |     |
| Sector lacks resilience   | Jun 15 | 65-66   | 148   | Concrete tiles and anti-ponding board                | Nov 98 | 17    |     |
| Skills issues in Canterbury   | Apr 14 | 76      | 141   | Condensation under metal roofs (night sky radiation) | Jun 06 | 26-27 |     |
| Small cost to be green  | Dec 13 | 68-69   | Constructing timber outriggers                            | Jun 14   | 39-40  | 142   |     |
| Smart work  | Oct 12 | 78      | Corrosion and lead pencils                                | Nov 99   | 12-13  |       |     |
| Solar potential of schools  | Oct 11 | 90-91   | Corrosion and swarf                                       | Nov 99   | 12-13  |       |     |
| Standardising design fires for residential buildings                                | Apr 06 | 90-91   | Crest fixing requirements for profiled steel roofing      | Jun 97   | 52     |       |     |
| Sustainability: investment risk or opportunity?                                     | Jun 08 | 70-71   | Design, product selection and installation                | Sep 98   | 46-47  |       |     |
| Taking care of growth   | Dec 11 | 70-71   | Detail of layered eave - innovative solution              | Aug 02   | 28-29  |       |     |
| Taranaki home injust hazards study  | Jun 09 | 52-53   | Detailing of eaves and fascia                             | Oct 02   | 16-17  |       |     |
| The benefits of being linked in   | Oct 14 | 91-92   | 144   | Developing attic spaces                              | Nov 00 | 16    |     |
| The 'Driving rain index' (DRI) and the research behind it                           | Aug 02 | 77-78   | Draining membrane roofs                                   | Aug 02   | 20-21  |       |     |
|   |        |         | Drinking water from the roof                              | Jan 01   | 15-16  |       |     |

|   |        |       |     |  |        |       |     |
|---|--------|-------|-----|--|--------|-------|-----|
| Drinking water from the roof                              | Dec 04 | 68    |     | Construction health and safety careers                                   | Oct 07 | 79    |     |
| Edge detailing for membrane roofs                         | Jun 12 | 25-26 |     | Construction Sector Action Plan tackles construction accidents           | Aug 11 | 66    |     |
| Effect of roof design on maintenance                      | May 01 | 12-13 |     | Crane company leads the way  | Aug 14 | 90    | 143 |
| Effects of wind pressures on roofs                        | May 99 | 11-12 |     | Crime prevention through environmental design                            | Apr 06 | 78-79 |     |
| Flashing the hip ridge junction                           | Aug 03 | 12    |     | Danger lurks   | Jun 13 | 62-63 |     |
| Flashings to suit specific site conditions                | May 00 | 9-10  |     | Department of Labour hammers unsafe building sites                       | Jun 06 | 78    |     |
| Gable dormer junctions detail and flashing                | Aug 07 | 23-24 |     | Design in safety before construction starts                              | Apr 12 | 56    |     |
| Getting the right profile                                 | Aug 12 | 42-43 |     | Designing safe buildings   | Jun 09 | 49-51 |     |
| Getting the sequence right                                | Apr 04 | 20-21 |     | Do not dig your own grave  | Feb 09 | 74    |     |
| Green roof for University of Auckland                     | Dec 06 | 14-15 |     | Does this harness make me look fat?                                      | Feb 08 | 72    |     |
| Green roof issues and cost benefits                       | Oct 06 | 39-42 |     | Domestic fire safety systems and their cost-effectiveness                | Nov 99 | 61-62 |     |
| How many 'Ds' are under your roof?                        | Aug 02 | 18-19 |     | Drug and alcohol abuse on site   | Oct 11 | 83    |     |
| How not to install a roof                                 | Nov 98 | 8-9   |     | Dust and fumes can damage your health                                    | Dec 10 | 68    |     |
| Impact of design on cost                                  | Sep 98 | 49-50 |     | Electrical passport  | Aug 04 | 74    |     |
| Incompatible materials and corrosion                      | Jan 01 | 58-62 |     | Employee liability (under H&S Act)                                       | Nov 98 | 23-24 |     |
| Installation of roofing underlay                          | Jun 07 | 18-19 |     | Employers' responsibilities  | Mar 98 | 19-20 |     |
| Joining roof trusses                                      | Oct 15 | 24-26 | 150 | Evacuation times & new fire ratings - how realistic are they?            | May 01 | 21-23 |     |
| Metals corroding others                                   | Jan 01 | 58-62 |     | Excellent health and safety practices                                    | Feb 06 | 62    |     |
| Minimum pitches   | Sep 98 | 11-12 |     | Exploding hot water cylinder   | Jan 01 | 12-13 |     |
| Periphery roof areas                                      | Jun 08 | 16-17 |     | Facts about safety nets  | Feb 15 | 24-26 | 146 |
| Priming laps on uncoated metal roofing                    | Jan 00 | 23    |     | Fair funding for the construction industry                               | Jan 00 | 68    |     |
| Rafter fixings  | Apr 14 | 26-28 | 141 | Falls from heights   | Nov 99 | 53    |     |
| Re-coating concrete roof tiles                            | May 99 | 13-14 |     | Falls from heights   | Jul 00 | 24    |     |
| Retrofitting roof insulation                              | Apr 07 | 22-23 |     | Fire design and building consents  | Feb 08 | 58-59 |     |
| Retrofitting to resist extreme wind                       | Aug 08 | 80-81 |     | Fire resistance - attention to detail                                    | Feb 08 | 62-63 |     |
| Risks associated with exposed overhangs                   | Aug 02 | 16-17 |     | Fire safety on construction sites  | Feb 08 | 64-65 |     |
| Roof bracing  | Feb 13 | 36-38 |     | Fire safety requirements of exterior wall claddings                      | Aug 97 | 28-30 |     |
| Roof cladding tool for cost and environmental impact      | Jun 11 | 28    |     | Fire sprinklers need water   | Feb 08 | 53-54 |     |
| Roof design   | Feb 11 | 17-18 |     | Flooring for public and commercial buildings                             | Sep 99 | 46-48 |     |
| Roof details  | Jan 02 | 15-17 |     | Get prequalified   | Jun 15 | 94    | 148 |
| Roof drainage design                                      | Oct 09 | 27-28 |     | Handling treated timber  | Dec 07 | 66    |     |
| Roof framing and trusses                                  | Jun 11 | 44    |     | Have you got gas?  | Oct 12 | 86    |     |
| Roof space ventilation                                    | Jun 03 | 28-30 |     | Health and Safety Guide for the Tendering Process (Site Safe NZ book)    |        |       |     |
| Roof ventilation in the Falklands                         | Jul 01 | 17-18 |     |  | Mar 00 | 22    |     |
| Roofing on exposed sites                                  | May 00 | 44-45 |     | Health and safety matters  | Feb 14 | 8     | 140 |
| Roofing that generates electricity and heat               | Apr 08 | 72-73 |     | Health and safety of contractors   | Jun 09 | 56    |     |
| Securing roofs against wind uplift                        | Jun 06 | 29    |     | Health and safety representative training                                | Feb 04 | 62-63 |     |
| Selecting membrane roofing                                | Jan 00 | 71-72 |     | Hot water safety   | Jan 01 | 12-13 |     |
| Selecting roof claddings                                  | Dec 08 | 57-60 |     | How committed are you to health and safety?                              | Jun 07 | 82    |     |
| Sizing rafters  | Jun 14 | 34-37 | 142 | Ingenuity improves safety  | Aug 11 | 67    |     |
| Specifying and installing asphalt shingle roofs           | May 99 | 70    |     | Insight into site safety   | Dec 14 | 88-89 | 145 |
| Storm-damaged roofs                                       | Apr 11 | 14-16 |     | Investigating workplace accidents  | Oct 15 | 90-91 | 150 |
| Testing installed roofing membranes                       | Nov 98 | 53-54 |     | Is a harness your best option?   | Jun 10 | 73    |     |
| Thicker insulation changes roof design                    | Aug 09 | 20-21 |     | Is that asbestos?  | Feb 14 | 24-26 | 140 |
| Tile roofs and flashings                                  | Sep 98 | 8-9   |     | Keep up, builders  | Aug 14 | 68    | 143 |
| Timber framed roofs                                       | Oct 05 | 22-23 |     | Ladder safety  | Dec 03 | 62-63 |     |
| Timber treatments for roof framing                        | Feb 06 | 20    |     | Launch of health and safety training scheme                              | Sep 00 | 22    |     |
| Tricky lean-to junctions                                  | Feb 14 | 32-34 |     | Learning from mistakes   | Oct 14 | 98-99 | 144 |
| Walking on roofs  | Oct 02 | 10-11 |     | Lessons come from tragedy at Jellie Park site                            | Jun 10 | 72    |     |
| Water usage   | Aug 04 | 72    |     | Look out for strangers   | Oct 15 | 88-89 | 150 |
| Weatherproofing parapets                                  | Sep 00 | 17    |     | Maintenance of buildings and bridges                                     | May 98 | 52-53 |     |
| Weatherproofing reverse slope eaves                       | Oct 03 | 18-19 |     | Maintenance Passport ensures safe maintenance                            | Oct 06 | 74    |     |
| Why are turn-ups needed under flashings?                  | Sep 99 | 22-23 |     | Make health and safety part of the deal                                  | Apr 10 | 64    |     |
| Wind and footings for veranda posts                       | Feb 97 | 17    |     | Making a site safe   | Jun 09 | 54-55 |     |
| Wind loads on hilly sites and NZS 4203:1992               | Nov 98 | 48-50 |     | Managing hazards   | Apr 13 | 84    |     |
|   |        |       |     | Managing mould removal   | Oct 13 | 96-97 |     |
|   |        |       |     | Managing site waste  | Feb 11 | 67    |     |
|   |        |       |     | Mechanical home ventilation systems                                      | Aug 07 | 42-43 |     |
| <b>Safety see also Health</b>                             |        |       |     | Minimum standards for elevating working platforms (EWPs)                 | Feb 06 | 11    |     |
| A united stand  | Feb 13 | 87    |     | Negotiating the leaky building maze                                      | Aug 12 | 50-51 |     |
| Accident prevention                                       | Aug 09 | 55    |     | New commercial (Site Safe) passport version 2                            | Oct 02 | 58-59 |     |
| Act now   | Aug 14 | 64-65 | 143 | New construction safety guidelines                                       | Sep 99 | 16    |     |
| An 8 step safety plan                                     | Aug 06 | 90    |     | New organisation for coordinated safety management and injury prevention |        |       |     |
| An eye for safety   | Feb 12 | 65    |     |  | Jan 98 | 73    |     |
| Are falling costs down?                                   | Aug 14 | 73-74 | 143 | Noise related hearing loss prevention                                    | Feb 07 | 62-63 |     |
| Be prepared for a fire                                    | Aug 12 | 62    |     | Outsourcing makes good sense   | Jun 03 | 74    |     |
| Best practices in site safety and management in Australia | Mar 98 | 59    |     | Passport opens door to safer industry (Site Safe)                        | Nov 01 | 32    |     |
| Bomb in the cupboard (letter)                             | May 01 | 7     |     | Passport to safety on site (Site Safe)                                   | May 01 | 26    |     |
| Brave new (safe) world (Site Safe)                        | Sep 01 | 24    |     | People, planet and profit  | Oct 10 | 74    |     |
| Building a healthy and safe workplace                     | Aug 14 | 92-93 | 143 | Planning makes good construction sense                                   | Aug 07 | 60    |     |
| Certificate in Construction Site Safety                   | Dec 05 | 60    |     | Precautions around asbestos  | Jun 11 | 68    |     |
| Certificate in Construction Site Safety                   | Dec 06 | 57    |     | Preventing backflow contamination  | Jan 01 | 42-44 |     |
| Civil Passport version 2                                  | Oct 05 | 90    |     | Preventing injury from manual handling                                   | Feb 07 | 64-65 |     |
| Cladding material safety considerations                   | Jun 06 | 80    |     | Principals and subcontractors  | Apr 08 | 66    |     |
| Claddings - is your safety covered?                       | Apr 11 | 66    |     | Quake lessons for scaffolding safety                                     | Jun 12 | 64    |     |
| Clever thinking protects workers                          | Dec 14 | 90-91 | 145 | Raising the bar  | Jun 14 | 90-91 | 142 |
| Competence improves site safety                           | Dec 06 | 56    |     | Raising the roof   | Dec 11 | 61    |     |
| Competency testing soon                                   | Aug 14 | 66    | 143 |  |        |       |     |
| Confined spaces   | Jun 97 | 66    |     |  |        |       |     |

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| Reduce your risk of injury  | Aug 11 | 16      | Influence of design                                 | Nov 00 | 35-36 |     |
| Research shows training = safer construction sites                      | Aug 08 | 68-69   | International issues                                | Nov 00 | 48-49 |     |
| Residential builders on track to improving safety                       | Aug 03 | 74      | Making a site safe                                  | Jun 09 | 54-55 |     |
| Roadblocks to safety (Site Safe)  | Apr 02 | 24-25   | Managing site documentation                         | Feb 04 | 56-57 |     |
| Safer buildings   | Dec 04 | 66-67   | On-site timber storage                              | Jun 04 | 42-43 |     |
| Safety? No problem  | Feb 15 | 82-83   | Poor design and building hits project costs         | Jan 01 | 48-50 |     |
| Safety around plant   | Jun 13 | 86      | Poor design and documentation (letter)              | May 01 | 6     |     |
| Safety blueprint form Site Safe   | Jun 09 | 60      | Quoting   | Nov 00 | 38-39 |     |
| Safety equals efficiency and productivity                               | Apr 07 | 72      | Roles in the building industry                      | Apr 05 | 50-51 |     |
| Safety first  | Aug 15 | 90-91   | Setting out   | Oct 12 | 26-28 |     |
| Safety glass identification   | Aug 06 | 106-107 | Setting out the building                            | Feb 04 | 13-15 |     |
| Safety management for contractors and subbies (Site Safe)               | Nov 00 | 28      | Setting up a site                                   | Feb 13 | 27-28 |     |
| Safety plan for small businesses  | Oct 04 | 82      | Stormwater control on building sites                | Dec 08 | 20-21 |     |
| Safety planning - keep it simple  | Jun 04 | 68-69   | Successful project management for refits            | Feb 06 | 38-39 |     |
| Safety with an eye on sustainability                                    | Dec 09 | 81      | Tendering - rights & obligations                    | Mar 01 | 24-26 |     |
| Same rules for every site?  | Dec 09 | 80      | Who's in charge on site?                            | Nov 00 | 30-33 |     |
| Scaffolding in the frame  | Dec 14 | 30-32   |   |        |       |     |
| Seminars on height safety (Site Safe)                                   | Jan 02 | 30      | <b>Skillion roofs see also Roofs</b>                |        |       |     |
| Sign up and save a life   | Dec 03 | 36-37   | Constructing skillion roofs                         | Jun 97 | 24-25 |     |
| Signs of a winner   | Feb 14 | 78-79   | Installing insulation in skillion roofs             | Mar 00 | 8     |     |
| Site Safe construction training   | May 00 | 56      | Keeping skillion roofs dry                          | Oct 05 | 38-39 |     |
| Site Safe Height Training Centre opens doors                            | Jun 08 | 62      | Moisture content of framing for skillion roofs      | Jun 97 | 24-25 |     |
| Site Safe launched (new health and safety organisation)                 | Jul 99 | 67      | Preventing moisture problems                        | Mar 98 | 14    |     |
| Site Safe management tools  | Apr 06 | 70-71   | Preventing moisture problems                        | Jan 98 | 10-11 |     |
| Site Safe NZ - maintenance sector training                              | Oct 03 | 66      | Roof space ventilation                              | Jun 03 | 28-30 |     |
| Site Safe's new residential passport training initiatives               | Dec 02 | 66-67   | Vapour barriers                                     | Feb 97 | 12-13 |     |
| Site Safes new Auckland Training Centre                                 | Aug 05 | 72      |   |        |       |     |
| Site supervisor safety training (Site Safe)                             | Nov 00 | 28      | <b>Smart growth &amp; urban development</b>         |        |       |     |
| Site-specific safety planning   | Apr 05 | 72      | A better way at Flat Bush                           | Jun 08 | 38-39 |     |
| Slip resistance for paths, stairs, ramps and entries (D1 Access Routes) | Sep 99 | 50      | Airport energy saving takes off                     | Feb 15 | 77-78 | 146 |
| Slip-related accidents  | May 98 | 72      | Apartments that do not make the grade               | Apr 06 | 58-60 |     |
| Steps to good, better, best safety                                      | Dec 13 | 86      | Better communities with 'smart growth'              | May 01 | 32-35 |     |
| Stop the bullying   | Aug 13 | 82      | Challenges of urban growth in Auckland              | Jun 02 | 32-33 |     |
| Strengthening Eastern Porirua neighbourhoods                            | Jun 08 | 35-37   | Convenants affecting affordability                  | Jun 12 | 32-33 |     |
| Supervisor Gold Card (Site Safe)  | Feb 03 | 62-63   | Creating great towns and cities of the future       | Dec 02 | 60-61 |     |
| Surfaces to stop slips and falls  | Oct 07 | 20-21   | Goodbye urban sprawl, hello apartments              | Jun 12 | 30-31 |     |
| Take care when repairing leaky buildings                                | Aug 07 | 36-37   | Guide to building great neighbourhoods              | Jun 08 | 42    |     |
| Take height safety seriously  | Apr 03 | 80-81   | Home truths   | Jun 12 | 36    |     |
| Tall work   | Apr 14 | 90      | Italian study on urban design                       | Jun 02 | 30-31 |     |
| Taranaki home injust hazards study                                      | Jun 09 | 52-53   | Making cities work for us                           | Oct 04 | 48-51 |     |
| Think safety when renovating  | Feb 10 | 66      | Neighbourhoods for life                             | Jun 08 | 33-34 |     |
| True cost of accidents (Site Safe)                                      | Aug 02 | 64-65   | New urban planning concept                          | Feb 05 | 46-47 |     |
| Upgrading safety standards in old houses                                | Jan 00 | 45-48   | North Shore City Council design guide               | Jun 02 | 44-45 |     |
| Voucher system for SiteSafe training                                    | Apr 04 | 72      | Q & A with new Minister for Urban Affairs           | Dec 02 | 59-60 |     |
| Who is responsible?   | Dec 12 | 79      | Revitalising town centres                           | Feb 03 | 36-37 |     |
| Why Site Safe training is needed  | Mar 01 | 27      | Skateboarding in urban areas                        | Jun 02 | 36-38 |     |
| Working safe a priority   | Aug 14 | 70-71   | Smart growth developments (containing urban sprawl) | Mar 00 | 30-31 |     |
| Working safely at height  | Feb 05 | 72-73   | Smart growth principles                             | Feb 04 | 46-47 |     |
| Working safely at height (Site Safe)                                    | Jun 02 | 56-57   | Social infrastructure & urban planning              | May 01 | 36-37 |     |
| Workplace safety course   | Aug 06 | 88      | Strengthening Eastern Porirua neighbourhoods        | Jun 08 | 35-37 |     |
|   |        |         | Urban design research in NZ                         | Oct 04 | 52-53 |     |

## Sealants

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| Adhesion to substrates and durability               | Jun 97 | 47    |
| Choosing and using                                  | Jan 99 | 16-18 |
| Choosing the right sealant                          | Oct 06 | 92    |
| Durability research                                 | Sep 00 | 41-42 |
| Maintaining and replacing sealants                  | May 01 | 16-17 |
| Sealant use and selection                           | Apr 04 | 52-54 |
| Sealants not a silver bullet                        | Jun 06 | 22    |
| Testing modified silicone and conventional sealants | Apr 06 | 94-95 |

## Site inspections

|                                    |        |       |
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| Checking timber on site            | Jun 04 | 38-39 |
| What must be checked or inspected? | Jul 99 | 10    |

## Site management

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| 20 tips to running a smooth project                                 | Jun 06 | 23    |
| As safe as houses?  | Feb 04 | 54-55 |
| Being held to account   | Oct 15 | 68-70 |
| Builders for Housing New Zealand need to get it right               | Apr 06 | 62-63 |
| Clerk of Works  | Feb 04 | 52-53 |
| Clerk of Works still needed (letter)                                | Jan 01 | 6     |
| Code Compliance Certificates - who's liable if something goes wrong | May 01 | 27-28 |
| Communication is the key  | Nov 00 | 42-44 |
| Completing the project  | Nov 00 | 46    |

## Solar heating, passive see also Thermal mass

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| Choosing solar water heating                               | Apr 05 | 74-75 |
| Cost effectiveness of solar water heaters                  | Feb 06 | 72    |
| Debunking solar design myths                               | Mar 01 | 52-55 |
| Designing built shade for sun protection                   | Oct 02 | 44-46 |
| Designs for low energy usage and comfort                   | Jan 00 | 62-63 |
| Energy-efficient design                                    | Apr 03 | 50-51 |
| Global warming good for solar hot water heating            | Apr 07 | 60-61 |
| Heating in schools   | Apr 03 | 54-56 |
| Low-energy houses  | Apr 04 | 76-77 |
| Mass in houses in NZ conditions                            | Mar 01 | 56-58 |
| Overcoming barriers to solar uptake                        | Aug 05 | 70-71 |
| Passive solar design                                       | Jun 07 | 36    |
| Self-powering home and office                              | Oct 06 | 54    |
| Solar and heat pump water heating                          | Oct 10 | 56    |
| Solar collector panel installation                         | Dec 09 | 31-33 |
| Solar heating  | Feb 97 | 65-67 |
| Solar walls in school in action                            | Apr 09 | 68    |
| Solar water heating  | Oct 10 | 30-31 |
| Solar water heating  | Apr 03 | 52-53 |
| Solar water heating in NZ                                  | Apr 07 | 62-63 |
| Solar water heating systems                                | Dec 09 | 62-63 |
| Solar water heating, thermal performance and photovoltaics | Feb 07 | 28    |
| Turning solar for water heating                            | Aug 08 | 58-59 |
| Value of comfort   | Feb 04 | 40-41 |



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| Wall claddings that heat the house                            | Jun 06 | 32-33 | Steel market share in buildings                | Oct 05 | 64-65 |     |
| Walls that warm you   | Apr 04 | 58-59 | Steel trends in buildings                      | Feb 09 | 53    |     |
| <b>Solid fuel burners</b>                                     |        |       | Steel-framed seismic-resisting systems         | Aug 04 | 38-40 |     |
| Building consents   | Jul 99 | 19    | Steely performers                              | Feb 13 | 53-54 |     |
| Flue installations in enclosures                              | Apr 12 | 20-22 | Supporting reinforcing                         | Jul 00 | 12-13 |     |
| Installing solid fuel heaters                                 | Dec 08 | 25-26 | Thermal breaks and bridges                     | Feb 09 | 16-17 |     |
|   |        |       | Thermal breaks and steel framing               | Dec 11 | 19    |     |
|   |        |       | Thermal breaks in steel framing                | Jan 00 | 22    |     |
|   |        |       | Thermal breaks in steel framing                | Sep 00 | 20-21 |     |
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| <b>Sound control</b>  |        |       | <b>Steel framing</b>                           |        |       |     |
| A sound improvement   | Jun 12 | 46-47 | Steel framing and thermal resistance           | Feb 97 | 27    |     |
| Acoustics   | May 98 | 17-18 | Steel-framed seismic-resisting systems         | Aug 04 | 38-40 |     |
| Acoustics of public buildings                                 | Aug 03 | 34-35 | Thermal breaks and steel framing               | Dec 11 | 19    |     |
| Adapting windows to reduce noise                              | Jul 00 | 51-52 |  |        |       |     |
| Audiovisual systems   | Aug 03 | 31-33 | <b>Strawbale building</b>                      |        |       |     |
| Australian regulation of sound insulation                     | Sep 01 | 56    | Alternative building trends                    | Jul 98 | 34-35 |     |
| Building officials concerned about noise through floors       | Mar 01 | 51    | Design guidelines to prevent moisture damage   | Sep 98 | 22    |     |
| Canberra Acoustical Conference                                | Apr 02 | 50-51 | Design guidelines to prevent moisture damage   | Nov 98 | 20-22 |     |
| Changes in noise control in Australia                         | May 01 | 64-65 | Straw house wins UK Sustainability Award       | Jun 06 | 57    |     |
| Converting old buildings to apartments                        | Jul 00 | 49-50 | Sustainable design of York EcoDepot            | Apr 07 | 31-33 |     |
| Designing for sound control in walls and floors               | Nov 99 | 56-58 |  |        |       |     |
| Double glazing  | May 98 | 45-46 | <b>Stucco</b>                                  |        |       |     |
| Double glazing  | May 98 | 13    | Accommodating stucco shrinkage                 | Feb 04 | 16-18 |     |
| Glass in public buildings                                     | Aug 03 | 48-49 | Acrylic painting and moisture                  | May 98 | 20    |     |
| How is sound insulation measured?                             | Sep 01 | 56-57 | Best practice for rigid-backed stucco          | Nov 01 | 18-19 |     |
| Impact noise through floors                                   | Jun 03 | 23-24 | Chemical analysis of stucco plaster            | Feb 07 | 71-73 |     |
| Impact noise through intertenancy floors                      | Nov 00 | 53-54 | Corrosion from high chloride sands             | Mar 98 | 11-13 |     |
| Insulation in offices   | Jul 98 | 14-15 | Drained and ventilated cavities                | Jul 01 | 42-43 |     |
| Measuring sound insulation                                    | Sep 01 | 56    | Finishing stucco to ground                     | Aug 04 | 18    |     |
| Noise flanking  | Apr 06 | 92-93 | Fire ratings                                   | Oct 97 | 16-17 |     |
| NZBC requirements   | May 98 | 14-15 | Flashings                                      | May 98 | 20    |     |
| Preventing footfall noise transmission                        | Jul 00 | 53-55 | Getting stucco control joints right            | Aug 06 | 16-17 |     |
| Residential sound control options                             | Aug 04 | 46-47 | Gun-fixing of reinforcing                      | Jan 99 | 8-9   |     |
| Sound classification of dwellings                             | Feb 04 | 70-71 | Plaster and chloride levels                    | Jun 02 | 22    |     |
| Wall linings  | May 98 | 17-18 | Plastered clay-brick veneers                   | Jun 05 | 60-61 |     |
| What use is IIC?  | Feb 04 | 68    | Retrofitting movement control joints in stucco | Oct 04 | 28-29 |     |
| <b>Specifications</b>   |        |       | Steel construction booms                       | Aug 15 | 52-53 | 149 |
| Coast guard for metal components                              | Jun 13 | 43-44 | Stucco - detailing the options                 | Aug 03 | 16    |     |
| MasterSpec™ BASIC   | Apr 97 | 75-76 | Stucco control joints                          | Dec 04 | 63    |     |
| Membranes do matter   | Aug 13 | 48-49 | Stucco over masonry substrates                 | Feb 05 | 29    |     |
| Quantifying good, better and best                             | Aug 04 | 36-37 | Stucco to weatherboard junctions               | Jan 01 | 20    |     |
| Roles of specifications                                       | Aug 04 | 50    | Waterproofing                                  | May 98 | 20    |     |
| Selecting nails and screws for 50-year durability             | Aug 13 | 40    |  |        |       |     |
| What must be included   | May 00 | 18-19 | <b>Subfloors</b>                               |        |       |     |
| Writing a good specification                                  | Jun 12 | 56-57 | Corrosion research                             | Jan 98 | 45-46 |     |
| <b>Stainless steel</b>  |        |       | Fixings and corrosion                          | Jun 97 | 40-41 |     |
| Fixings for coastal areas                                     | Jan 99 | 31    | Insulation to suspended timber floors          | Apr 03 | 46    |     |
| In harsh environments   | Oct 02 | 38-40 | Moisture and damp ceilings                     | Mar 99 | 10    |     |
| Stainless steel considerations                                | Aug 13 | 44-45 | Protecting subfloor framing                    | Apr 02 | 10-11 |     |
| Stainless steel fixings                                       | Apr 04 | 56-57 | Relocating homes                               | Jan 02 | 36-37 |     |
| Stainless steels different                                    | Aug 09 | 42-43 | Retrofitting insulation to subfloors           | Apr 03 | 44-45 |     |
| <b>Steel</b>  |        |       | Stainless steel fixings in subfloors           | Jul 00 | 23    |     |
| BRANZ corrosion expertise for SE Asia                         | Jan 01 | 50-51 | Subfloor bracing                               | Oct 12 | 38-41 |     |
| Cold formed steel structures Standard                         | Apr 97 | 71-73 | Subfloor ventilation                           | Oct 06 | 34-36 |     |
| Compliance of reinforcing steel with NZS 3402                 | Jun 97 | 68-69 | Untreated radiata pine                         | Sep 99 | 15    |     |
| Concrete cover and durability of foundations                  | Aug 03 | 60-61 | Upgrading subfloor insulation                  | Feb 10 | 15-16 |     |
| Cost estimates for steelwork                                  | Apr 97 | 71-73 | Ventilation                                    | Jun 97 | 17-18 |     |
| Cost of steelwork   | Oct 05 | 66-67 | Ventilation                                    | May 98 | 70    |     |
| Crest fixing requirements for profiled steel roofing          | Jun 97 | 52    | Ventilation and subfloors                      | Aug 15 | 76-77 | 149 |
| Durability and exposed steel beams                            | Oct 11 | 22-23 | When repairs go bad                            | May 01 | 9-10  |     |
| Grade 500E reinforcing debate                                 | Dec 03 | 54-56 |  |        |       |     |
| Hand-tied reinforcing   | Apr 04 | 15    | <b>Substitution</b>                            |        |       |     |
| Incompatible materials and corrosion                          | Jan 01 | 58-62 | Alert but not alarmed                          | Feb 14 | 54-55 | 140 |
| Light steel-framed house gets earthquake test                 | Oct 09 | 54-55 | Beware non-compliant products                  | Aug 13 | 42    |     |
| Metals corroding others                                       | Jan 01 | 58-62 | Designers need to get specific with specs      | Aug 09 | 38-39 |     |
| NZS 3404 review   | Feb 09 | 59    | Legal view on product substitution             | Aug 09 | 40-41 |     |
| Plastic ties for reinforcing                                  | Aug 04 | 24    | Stainless steels different                     | Aug 09 | 42-43 |     |
| Protecting steel structures                                   | Mar 01 | 14-15 | Substitution - the cost of change              | Oct 08 | 52-53 |     |
| Reinforcing bar markings                                      | Dec 06 | 10    | Substitution of building products, dangers     | Apr 97 | 14-15 |     |
| Reinforcing steel - laps, bends, tying...                     | Jun 10 | 20-22 | Substitution, bracing ratings                  | Apr 97 | 19-20 |     |
| Reinforcing steel - types, differences, bending and rebending | Oct 05 | 70-71 | To match existing means exactly that           | Feb 10 | 34-35 |     |
| Residential steel framing                                     | Feb 09 | 54-55 | Whats in a name?                               | Apr 10 | 62-63 |     |
| Site-bending of reinforcing steel                             | Oct 04 | 22-24 |  |        |       |     |
| Steel framing - condensation and thermal bridges              | Apr 05 | 22-23 | <b>Sustainable building</b>                    |        |       |     |
| Steel in construction   | Feb 09 | 57-58 | A best practice home                           | Apr 13 | 80-81 |     |

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| A better way at Flat Bush                                    | Jun 08 | 38-39 |     | Low-energy houses   | Apr 04 | 76-77 |     |
| Airport energy saving takes off                              | Feb 15 | 77-78 | 146 | Marrying affordability with sustainability                    | Oct 09 | 68-69 |     |
| Alex Cutler - construction ahead of the sustainability curve | Oct 10 | 54-55 |     | McLaren race team headquarters                                | Oct 04 | 72-73 |     |
| Architects reply   | Aug 15 | 6     | 149 | Melbournes Council House 2, greenest building                 | Apr 07 | 48-49 |     |
| Australia cutting new suburbs from watermain                 | Oct 03 | 41    |     | Meridian Building flagship for sustainability                 | Feb 09 | 30-31 |     |
| Australian building industry in 2025                         | Aug 05 | 50-52 |     | Moving from green to sustainable buildings                    | Jun 06 | 12-13 |     |
| Australian strategies to reduce water use                    | Apr 08 | 58-59 |     | National Banks first green retail building                    | Feb 09 | 32-33 |     |
| Backing energy efficiency                                    | Apr 13 | 43-44 |     | National value case for sustainable housing innovations       | Feb 08 | 92-93 |     |
| Bamboo in construction                                       | Oct 03 | 44-46 |     | Neighbourhood sustainability                                  | Oct 10 | 40-41 |     |
| Banking on green   | Feb 15 | 67-68 | 146 | Neighbourhoods for life                                       | Jun 08 | 33-34 |     |
| BASIX (Building Sustainability Index)                        | Apr 06 | 84-85 |     | Nelson building a world first in LVL timber                   | Apr 11 | 72    |     |
| Beacons checklist for sustainability                         | Jun 07 | 44-45 |     | New Kapiti houses water saving devices                        | Apr 08 | 60-61 |     |
| BEES investigates commercial building energy and water use   | Jun 09 | 40-41 |     | Now Home opening  | Oct 05 | 76-77 |     |
| Better buildings for Waitakere City                          | Mar 01 | 36-39 |     | NOW home project  | Apr 04 | 78-79 |     |
| Big gains from passive design                                | Aug 15 | 79-80 | 149 | Nuturing growth - Kawakawa                                    | Aug 14 | 56-57 | 143 |
| Biogas fuels civic building                                  | Feb 11 | 76-77 |     | NZ Society of Sustainability Engineering & Science            | Oct 03 | 47    |     |
| Biomaterials and construction                                | Aug 08 | 43    |     | Offices that rate   | Aug 13 | 83    |     |
| Biomimicry - using biology to inspire design                 | Oct 07 | 90-91 |     | On-site power supply (wind, hydro, micro-CHP, solar)          | Dec 09 | 35-36 |     |
| Book review - A deeper shade of green                        | Dec 08 | 82-83 |     | Optimise operation to reduce impact - LCA Waitakere NOW Home  | Dec 09 | 45-46 |     |
| BRANZ launches Level sustainability website                  | Jun 07 | 92    |     | Passive design strategies                                     | Oct 08 | 84-85 |     |
| Building envelope of the future                              | Aug 04 | 28-29 |     | Passive house or Passivhaus?                                  | Dec 12 | 76-78 |     |
| Building for the future                                      | Dec 09 | 4     |     | Performance monitoring, Hamilton house                        | Aug 09 | 72-73 |     |
| CI tower, Christchurch                                       | Feb 08 | 46-47 |     | Performance reviews   | Jun 13 | 78-79 |     |
| Cardboard house  | Jun 05 | 84    |     | Permeable surfaces for paths and driveways                    | Oct 10 | 28-29 |     |
| Chilterns gateway centre, United Kingdom                     | Dec 07 | 16-17 |     | Planning the new sustainable house                            | Aug 08 | 86-87 |     |
| Christchurch South Library                                   | Feb 04 | 10-11 |     | Promoting eco design  | Feb 13 | 86    |     |
| Combat overheating without using energy                      | Dec 10 | 40-41 |     | Quest for sustainable urban house (book)                      | Mar 01 | 40    |     |
| Conservation House retrofit                                  | Jun 07 | 52-53 |     | Rainwater tanks   | Dec 09 | 23-24 |     |
| Creating sustainable offices using the Govt3 programme       | Oct 06 | 50-51 |     | Reclaiming value from building industry waste                 | Mar 01 | 32-34 |     |
| Dare to declare  | Feb 14 | 70-71 | 140 | Reducing oil dependence                                       | Dec 07 | 42    |     |
| Designing a sustainable wastewater system                    | Feb 09 | 78-79 |     | Reducing on-site energy use                                   | Jun 09 | 74-75 |     |
| Different sustainable construction, Genesis Centre, UK       | Dec 06 | 26-29 |     | Regenerative design for the future                            | Dec 09 | 68-69 |     |
| Difficult task of choosing materials wisely                  | Dec 08 | 84-85 |     | Renovate or replace - environmental impacts                   | Jun 07 | 59    |     |
| Do we rate environmentally?                                  | Feb 15 | 58-60 | 146 | Renovating for sustainability in Papakowhai                   | Apr 08 | 34-35 |     |
| Earth-sheltered houses, Hockerton, England                   | Dec 05 | 70-72 |     | Residential rating tool                                       | Apr 10 | 80    |     |
| ebodes Westmere sustainable urban house                      | Oct 10 | 62    |     | Residents perceptions of Talbot Park                          | Feb 11 | 78-79 |     |
| Eco building materials - where to form here?                 | Aug 10 | 82-83 |     | Re-thinking education at Kingsmead, Cheshire                  | Oct 04 | 88-91 |     |
| Eco-building resources you can count on                      | Feb 10 | 74-75 |     | Retrofits and sustainability                                  | Aug 09 | 34    |     |
| Eco-building. Design and build to the environment            | Apr 06 | 64-65 |     | Self-powering home and office                                 | Oct 06 | 54    |     |
| Eco-friendly materials                                       | Dec 04 | 52-53 |     | Seven shades of greenwash                                     | Jun 13 | 56-57 |     |
| Efficient lighting strategy                                  | Jun 08 | 75    |     | Site-specific design at BRANZ                                 | Feb 12 | 74-75 |     |
| Energy efficiency and conservation strategy                  | Feb 08 | 42-43 |     | Small cost to be green  | Dec 13 | 68-69 |     |
| Energy efficiency and the environment                        | Mar 99 | 59-61 |     | Smart Meridian building for Wellington waterfront             | Jun 07 | 56-58 |     |
| Environmental Choice and ecolabelling                        | Feb 04 | 42    |     | Solar Decathlon   | Dec 10 | 42    |     |
| Examples of going green down south                           | Jun 09 | 72-73 |     | Solar water heating, thermal performance and photovoltaics    | Feb 07 | 28    |     |
| First buildings gain 5-stars                                 | Dec 07 | 68-69 |     | Sorting out peak performance                                  | Aug 14 | 59-60 | 143 |
| Firstlight bach achieved right balance                       | Feb 12 | 38    |     | St Kilda Waterways - green community precinct                 | Apr 10 | 78    |     |
| Focus on sustainable renovations                             | Apr 08 | 42-43 |     | State housing - happiness, health and housing                 | Oct 03 | 48-49 |     |
| Friedensreich Hundertwasser                                  | Feb 08 | 76-77 |     | Steel, timber and glass houses of the future                  | Aug 05 | 40-41 |     |
| Going all the way  | Jun 04 | 80-82 |     | Strategy through sustainability - new Velux headquarters      | Oct 03 | 28-31 |     |
| Good for business  | Feb 15 | 74-75 | 146 | Strengthening Eastern Porirua neighbourhoods                  | Jun 08 | 35-37 |     |
| Government's key objectives                                  | Apr 03 | 35    |     | Sustainability and building regulations                       | Dec 03 | 42-43 |     |
| Govt3 awards for sustainable buildings in development        | Feb 06 | 10    |     | Sustainability and carbon-zero houses in the UK               | Dec 08 | 46-47 |     |
| Green buildings boost productivity                           | Aug 11 | 38    |     | Sustainability and New Zealands Building Act                  | Apr 05 | 40-41 |     |
| Green buildings prove profitable                             | Apr 13 | 46-47 |     | Sustainability is here to stay                                | Oct 06 | 44    |     |
| Green Hamilton hospital a healthier choice                   | Oct 09 | 38-39 |     | Sustainability versus wood preservatives                      | Oct 03 | 52-53 |     |
| Green innovative housing                                     | Feb 05 | 58-59 |     | Sustainability: investment risk or opportunity?               | Jun 08 | 70-71 |     |
| Green roof issues and cost benefits                          | Oct 06 | 39-42 |     | Sustainable and carbon neutral challenge brings opportunities | Feb 08 | 40-41 |     |
| Green tick adds to cost...sometimes                          | Jun 12 | 70-71 |     | Sustainable building conference, Oslo, Norway                 | Feb 03 | 50-51 |     |
| Greenbuild website a hit                                     | Aug 08 | 48    |     | Sustainable construction in developing countries              | Oct 03 | 42-43 |     |
| Greening the Garden City                                     | Jun 13 | 58-59 |     | Sustainable construction makes sense                          | Dec 09 | 66    |     |
| Greenwash is out   | Apr 10 | 36    |     | Sustainable construction websites                             | Oct 03 | 47    |     |
| Guides to better performing buildings                        | Jun 09 | 44-45 |     | Sustainable design of York EcoDepot                           | Apr 07 | 31-33 |     |
| Home truths  | Aug 14 | 8     | 143 | Sustainable design showcased in Wanaka                        | Jun 07 | 48-49 |     |
| Homes that raise the bar                                     | Jun 13 | 51-53 |     | Sustainable features grow in new houses                       | Dec 09 | 47    |     |
| Homestar goes live   | Dec 10 | 78    |     | Sustainable Home Guidelines (book)                            | May 00 | 63    |     |
| House for typical 2025 couple                                | Aug 05 | 38-39 |     | Sustainable projects take multiple awards, 2009 NZIA awards   | Dec 09 | 48-49 |     |
| Houses overheating in summer                                 | Jun 07 | 46-47 |     | Sustainable retrofit on a fixed budget                        | Feb 10 | 36-37 |     |
| How green is the garden city?                                | Feb 15 | 62-62 | 146 | Sustainable, affordable Auckland                              | Jun 13 | 54-55 |     |
| Industrial ecology. Waste not want not                       | Aug 07 | 56-57 |     | Talbot Park community renewal                                 | Jun 07 | 41-43 |     |
| Information missing in sustainable housing                   | Aug 08 | 84-85 |     | Talking about sustainability (SB11)                           | Feb 12 | 72    |     |
| Innovation & education at Bristol                            | Jun 03 | 16-17 |     | The end of an era?  | Feb 15 | 6     | 146 |
| International sustainable and affordable houses              | Apr 05 | 64-66 |     | The heart of zero-energy buildings                            | Dec 13 | 74-75 |     |
| Kiwi bach well on way to US Solar Decathlon                  | Apr 11 | 70-71 |     | The little greenie, Golden Bay                                | Oct 09 | 84-85 |     |
| Kiwi First Light bach out at sea                             | Aug 11 | 75    |     | The national value case for saving water                      | Apr 08 | 50-51 |     |
| Large building energy efficiency                             | Jun 07 | 54    |     | The Pixel office building gives back                          | Feb 12 | 40-41 |     |
| Level now books as well as website                           | Apr 08 | 76    |     |   |        |       |     |

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|--|--------|-------|-----|---|--------|-------|-----|
| Tools for a sustainable built environment                          | Jun 07 | 50-51 |     | Making sure your insulation does its job                | Oct 06 | 56-57 |     |
| Tough times test building design drivers                           | Jun 09 | 42-43 |     | Measuring in-situ thermal performance                   | Aug 08 | 40-41 |     |
| Towards a sustainable future: recent conference                    | Feb 08 | 90    |     | NZBC requirements                                       | May 98 | 8-9   |     |
| Turning green for a better tomorrow: sustainable building features |        |       |     | NZBC requirements                                       | Jun 97 | 55    |     |
|  | Dec 07 | 36-37 |     | Secondary glazing - how well does it work?              | Feb 10 | 46-47 |     |
| TUSC (Tool for Urban Sustainability)                               | Apr 06 | 86-87 |     | Thermal breaks and bridges                              | Feb 09 | 16-17 |     |
| UK Code for Sustainable Homes in NZ                                | Feb 09 | 76-77 |     | Thermal breaks and steel framing                        | Dec 11 | 19    |     |
| Urban sustainability - new web-based resource                      | Oct 03 | 76    |     |   |        |       |     |
| Values inform aspirational project                                 | Jun 13 | 48-50 |     | <b>Thermal mass</b>                                     |        |       |     |
| Valuing higher performers  | Feb 15 | 65-66 | 146 | Benefits of thermal mass in heavy walls (research)      | Sep 00 | 68-70 |     |
| Vision for Planet Earth  | Apr 12 | 66-67 |     | Debunking solar design myths                            | Mar 01 | 52-55 |     |
| Waikato uni student centre   | Oct 10 | 66    |     | Design for high-mass construction                       | Apr 03 | 72-74 |     |
| Walls that warm you  | Apr 04 | 58-59 |     | Mass in houses in NZ conditions                         | Mar 01 | 56-58 |     |
| Warm, dry, comfortable home sweet home - NOW Home                  | Feb 08 | 36-37 |     | Mouldy low mass houses (letter)                         | Mar 01 | 6     |     |
| Waste diversion during deconstruction                              | Jun 08 | 72-74 |     |   |        |       |     |
| Waste not  | Feb 13 | 84    |     | <b>Tiles</b>  |        |       |     |
| Water, stormwater and eave design                                  | Aug 07 | 28-29 |     | Bathroom floor tiles and under-tile heating             | Apr 10 | 21-22 |     |
| Waterfront building designed for wind and rain                     | Feb 04 | 26-27 |     | Case study - liquid-applied membranes in wet areas      | Dec 02 | 12-14 |     |
| WEEP highlights water use inefficiency                             | Apr 08 | 47-48 |     | Ceramic tiles and frost proofing                        | Aug 08 | 19-20 |     |
| What is sustainability in the context of buildings?                | Oct 03 | 36    |     | Ceramic tiles and substrate preparation                 | May 99 | 56    |     |
| What is sustainability?  | Dec 09 | 44    |     | Ceramic tiles, preventing cracking                      | Jan 98 | 29-31 |     |
| Where is Auckland's water going?                                   | Apr 08 | 54    |     | Concrete slabs & joints under NZS 3604                  | Aug 05 | 22-25 |     |
| Where sustainability fits in homeowners choices                    | Feb 06 | 74-75 |     | Concrete tiles and anti-ponding board                   | Nov 98 | 17    |     |
| Zero-energy buildings  | Aug 08 | 56-57 |     | Control joints  | May 99 | 53-54 |     |
|  |        |       |     | Control joints  | Jul 00 | 22    |     |
| <b>Swimming pools</b>  |        |       |     | Floor tiling  | Feb 97 | 17    |     |
| Indoor pool challenge  | Dec 12 | 64-66 |     | Impact noise through floors                             | Jun 03 | 23-24 |     |
| Spa pools and the regulations                                      | Oct 02 | 35-37 |     | Particleboard flooring in wet areas                     | Sep 98 | 19    |     |
|  |        |       |     | Synthetic rubber waterproof decks                       | Dec 07 | 23-24 |     |
| <b>Tanking</b>   |        |       |     | Tile roofs and flashings                                | Sep 98 | 8-9   |     |
| Installation and protection  | Mar 00 | 32-35 |     | Waterproofing tiled showers                             | Oct 15 | 35-38 | 150 |
| Tanking basements  | Oct 03 | 14-15 |     | Wet areas and damp-proof membranes                      | Nov 98 | 70    |     |
| Tanking basements  | Dec 05 | 19    |     | Wet areas and damp-proof membranes                      | Mar 00 | 37-39 |     |
|  |        |       |     | Wet areas and damp-proof membranes                      | Mar 00 | 52-53 |     |
| <b>Technology</b>  |        |       |     | <b>Timber</b>   |        |       |     |
| A model of excellence - Kathleen Kilgour Centre                    | Aug 13 | 55-57 |     | 2005 Origin Timber Design Awards                        | Feb 06 | 36-37 |     |
| An inside view   | Feb 14 | 74-75 |     | Adhesives for successful bonding                        | Apr 97 | 25    |     |
| Apps here to help you  | Aug 12 | 40-41 |     | Alternative timbers (book review)                       | Jun 04 | 89    |     |
| Automating compliance audit  | Jun 14 | 82-83 | 142 | Assessing timber strength and stiffness                 | Feb 03 | 12-13 |     |
| Be ready for B-RISK  | Oct 12 | 52-55 |     | Borer in untreated radiata pine                         | Feb 97 | 18-20 |     |
| BIM - the future is here   | Jun 15 | 89-90 | 148 | Borer in untreated radiata pine                         | Aug 97 | 68-71 |     |
| BIM adoption picking up  | Feb 14 | 66-67 | 140 | Borer, a moisture problem                               | Oct 97 | 11-12 |     |
| BIM now and forever  | Aug 12 | 37-38 |     | Builders guide to timber                                | Apr 09 | 33-34 |     |
| BIMs reach spreads   | Aug 13 | 52-54 |     | Built-up members  | Jun 13 | 33-34 |     |
| Building for change  | Apr 14 | 82    |     | CLT is seismic retrofits                                | Feb 15 | 70-71 | 146 |
| Constructive engagement  | Feb 13 | 76-77 |     | Colour intensity and timber treatment                   | Aug 04 | 16-17 |     |
| Getting the right profile  | Aug 12 | 42-43 |     | Comparing costs of timber with other structural systems | Nov 99 | 8-9   |     |
| Innovative timber reaches new highs                                | Dec 14 | 50-51 | 145 | Corrosion of fasteners                                  | Aug 09 | 47-48 |     |
| It's a material world  | Jun 12 | 44-45 |     | Costs of timber floors compared to concrete floors      | Jan 98 | 8-9   |     |
| Let your home do the thinking                                      | Jun 13 | 73-74 |     | Designing decks   | Jun 97 | 54    |     |
| Making it up   | Aug 14 | 40-41 | 143 | Dry rot in timber framing                               | May 99 | 20-23 |     |
| Making the most of BIM   | Aug 12 | 39    |     | Durability of boron-treated radiata                     | Apr 09 | 36-37 |     |
| Moving to low damage design  | Feb 13 | 50-51 |     | Early forestry  | Aug 09 | 86-87 |     |
| Online consents  | Aug 13 | 61    |     | Engineered wood products                                | Jul 00 | 43-47 |     |
| Push to coordinate data  | Dec 11 | 59    |     | Engineered wood products (EWP) offer new approach       | Oct 02 | 52-54 |     |
| Resourcing BIM   | Aug 14 | 47-49 | 143 | Exterior joinery  | Jun 97 | 42-45 |     |
| Savings from going digital   | Oct 15 | 62-64 | 150 | Fastener corrosion and treated timber                   | Jun 03 | 26-27 |     |
| Seismic shifts   | Aug 12 | 34-36 |     | Finger-jointed timber and the durability of adhesives   | Sep 99 | 66-67 |     |
| Seismic technology showcase  | Apr 14 | 59-62 | 141 | Fire performance of light timber frame walls and floors | Aug 97 | 46    |     |
| Smarter ways to build homes  | Apr 13 | 70-71 |     | Foundations and floors on wet sites                     | Mar 99 | 18-19 |     |
| Steeley performers   | Feb 13 | 53-54 |     | Framing and drill holes for pipework and wiring         | Apr 97 | 16    |     |
| The BIM journey  | Oct 15 | 86    | 150 | Framing and moisture                                    | Apr 97 | 17-18 |     |
| The printed house  | Aug 14 | 84    | 143 | Fungi in leaky homes                                    | Apr 09 | 38    |     |
| Universal design goes mobile                                       | Oct 14 | 88-89 | 144 | Guiding multi-storey timber buildings                   | Apr 14 | 78-79 | 141 |
| Virtually happening  | Aug 15 | 84    | 149 | H1 Plus timber treatment                                | Feb 03 | 44-45 |     |
|  |        |       |     | H1.2 framing timber treatment                           | Oct 11 | 16-17 |     |
|  |        |       |     | H3 timber framing                                       | Jan 02 | 14-15 |     |
| <b>Temperatures, indoor</b>  |        |       |     | Handling treated timber                                 | Dec 07 | 66    |     |
| Energy costs   | May 98 | 8-9   |     | Incompatible materials and corrosion                    | Jan 01 | 58-62 |     |
| Internal environments  | May 98 | 31-46 |     | Innovation to expand timbers use - STIC                 | Apr 09 | 40    |     |
| Solar gain and 'cool' design features                              | Sep 98 | 37    |     | Innovative post-tensioned Expan timber building         | Apr 11 | 76-77 |     |
| Trends in energy efficiency  | Jul 98 | 38-39 |     | Innovative timber reaches new highs                     | Dec 14 | 50-51 | 145 |
| Warmer houses reduce childrens asthma                              | Aug 07 | 40-41 |     | Innovative use of EWP                                   | Dec 02 | 28-29 |     |
|  |        |       |     | Kiln-dried framing                                      | Aug 97 | 13    |     |
| <b>Thermal insulation</b>  |        |       |     | Laying timber floors over concrete                      | Sep 98 | 78    |     |
| Development of thermal insulation - part 1                         | Apr 10 | 90-91 |     | Life cycle analysis of framing timber                   | Nov 98 | 42-43 |     |
| Energy costs   | May 98 | 8-9   |     |   |        |       |     |
| Insulating for comfy winters                                       | Jun 09 | 70-71 |     |   |        |       |     |

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| Loaded dimension - a guide                                      | Jun 07 | 26-28 | Wet areas and wood use  | Apr 06 | 18      |
| LOSP-treated timber, advantages and limitations                 | Nov 98 | 15-16 | When repairs go bad   | May 01 | 9-10    |
| LOSP-treated timber, advantages and limitations                 | Mar 99 | 13-14 | Where to with timber treatments?  | Aug 08 | 38-39   |
| Manual for multi-storey timber buildings (book)                 | Mar 01 | 50    | Wood-plastic composites - flexible materials for the future                 | Oct 02 | 54-55   |
| Measuring moisture-resistance & capacitance meters              | Aug 02 | 42-43 |   |        |         |
| Measuring the moisture content                                  | May 00 | 11    | <b>Tools</b>  |        |         |
| Metal fixings in timber and corrosion                           | Jan 99 | 28-29 | Greenbuild website a hit  | Aug 08 | 48      |
| More rusty nuts?  | Jun 04 | 50-51 | Thermal imaging - handle with care  | Feb 10 | 44-45   |
| MSG colour coding   | Mar 99 | 12    | Tungsten carbide saw blades   | Aug 06 | 26-27   |
| Multi-residential timber frame construction in Australia        | Nov 00 | 50-52 |   |        |         |
| Multi-storey timber framing                                     | Nov 99 | 50    | <b>Training see also Education, Safety</b>                                  |        |         |
| Nailing timber weatherboards                                    | Feb 06 | 22    | A skilful strategy  | Dec 12 | 74      |
| Nelson building a world first in LVL timber                     | Apr 11 | 72    | An investment for employers   | Mar 98 | 40-41   |
| New connections for LVL elbow joints                            | Oct 03 | 78-79 | Army carpentry apprentices  | Dec 06 | 60      |
| New timber standards  | Jun 04 | 52-54 | BCITO Building Careers Week   | Dec 05 | 31-33   |
| New timber treatment requirements                               | Jun 04 | 34-35 | Boost business with literacy training                                       | Feb 11 | 68      |
| New timber treatments   | Oct 02 | 56    | BRANZ construction industry training enterprise (CITE)                      | Oct 02 | 20      |
| On-site framing treatment                                       | Oct 13 | 58-59 | Building a good apprentice  | Apr 14 | 74-75   |
| On-site timber storage  | Jun 04 | 42-43 | Building and Construction Industry Training Organisation (BCITO)            | Mar 98 | 23-29   |
| Paint and moisture problems                                     | Mar 98 | 16-17 | Building apprenticeships  | Jun 03 | 32-41   |
| Preventing collapse of enclosed decks                           | Jun 06 | 90-91 | Building Careers Week in 2006   | Dec 06 | 64      |
| Preventing moisture problems                                    | Aug 97 | 67    | Building industry workforce training trends                                 | Mar 98 | 8-9     |
| Preventing shrinkage and swelling in strip flooring             | Jan 98 | 32-36 | Building management qualification   | Mar 98 | 34      |
| Preventing splitting of board and batten claddings              | Mar 99 | 11    | Carpentry apprenticeships   | Mar 98 | 23-29   |
| Processed wood market has huge potential                        | Dec 03 | 52-53 | Carpentry apprenticeships   | Jun 03 | 10-11   |
| Radiata pine - is it getting weaker                             | Oct 02 | 19    | Certified builders and licensing  | Dec 06 | 36-37   |
| Radiata subfloor timber must be treated                         | Sep 99 | 15    | CITE fills knowledge needs  | Dec 05 | 66      |
| Reducing vibration in timber floors                             | Jan 98 | 37-38 | Construction health and safety careers                                      | Oct 07 | 79      |
| Resourceful timber  | Oct 12 | 88-89 | Continuing professional development   | Jun 04 | 66      |
| Reverse board and batten  | Apr 06 | 23    | Design and Construction Consultants Industry Training Organisation (DCCITO) |        |         |
| Selecting timber treatments                                     | Feb 03 | 18-19 |   | Mar 98 | 32-33   |
| Selecting weatherboards and their fixing                        | Apr 04 | 44-46 | Developing great people for your business                                   | Aug 05 | 14-15   |
| Shape contributes to the life of paint coatings                 | May 00 | 42-43 | Diploma in Construction Management (Level 6)                                | Feb 05 | 41      |
| Slatted decking   | Jun 13 | 28-30 | Employment and firm size  | Jun 04 | 10-11   |
| Soft rot in timber  | Jul 98 | 11-13 | Feedback wanted on industry skills shortages                                | Feb 05 | 43      |
| Some HI treatments help prevent dry rot                         | May 00 | 20-22 | Future skill needs for the building industry                                | Aug 06 | 102-103 |
| Specifying timber guide   | Jul 98 | 77    | Group training schemes for apprenticeships                                  | Oct 04 | 54-55   |
| Squeaky floors research   | Jan 01 | 54-56 | Health and safety representative training                                   | Feb 04 | 62-63   |
| Structural plywood identification                               | Dec 10 | 23-24 | Industry training in action   | Feb 05 | 36-37   |
| Structural use of untreated radiata pine                        | Feb 97 | 18-20 | Issues facing subcontractors  | Oct 15 | 82-83   |
| Structural use of untreated radiata pine                        | Aug 97 | 68-71 | Learning while earning  | Dec 14 | 79-80   |
| Sustainability versus wood preservatives                        | Oct 03 | 52-53 | Maintaining skills in the LBP   | Apr 14 | 70-71   |
| Testing piles under earthquake and wind forces                  | Mar 98 | 60-61 | Manufacturer training for contractors                                       | Mar 98 | 42-43   |
| Testing the earthquake limits for timber wall design            | May 00 | 53-54 | Meeting industry needs  | Feb 05 | 78      |
| Timber blocking for floors and decks                            | Feb 07 | 18-19 | Modern Apprenticeships Coordinator profile                                  | Feb 05 | 38-39   |
| Timber design awards  | Feb 08 | 74-75 | National industry diplomas  | Mar 98 | 32-33   |
| Timber floor system   | Oct 13 | 86-87 | National qualification for inspectors                                       | Mar 98 | 31      |
| Timber grading for structural use                               | Jun 04 | 48-49 | New BRANZ training - building controls for IQPs                             | Aug 02 | 24      |
| Timber grading. Is there a need for change?                     | Apr 06 | 12    | New BRANZ training on target  | Dec 02 | 32-33   |
| Timber in new buildings   | Apr 09 | 35    | New concreting qualifications   | May 00 | 55      |
| Timber reaches new heights                                      | Apr 13 | 40-42 | New licensing system drives training uptake                                 | Feb 05 | 42      |
| Timber takes on new forms                                       | Aug 15 | 50-51 | Ongoing education   | Mar 98 | 44      |
| Timber treatment  | Feb 12 | 19-20 | Pre-employment carpentry training   | Mar 98 | 30      |
| Timber treatment  | Aug 13 | 38-39 | Site Safe Height Training Centre opens doors                                | Jun 08 | 62      |
| Timber treatment and grade selection for framing                | Oct 06 | 31-32 | Skilful paths to workplace productivity                                     | Dec 11 | 32-33   |
| Timber treatment for roof framing                               | Jun 05 | 18    | Skills in focus as productivity tops agenda                                 | Jun 10 | 38-39   |
| Timber treatment has just got simpler                           | Jun 11 | 40-42 | Tertiary Education Commission   | Jun 03 | 42      |
| Timber treatment poster - enclosed balconies and colour tinting | Oct 04 | 30-31 | Time-serve apprentices  | Jun 03 | 48      |
| Timber treatment topics incl. grades and colour coding          | Oct 05 | 28-29 | Tradespeople in demand as licensing looms                                   | Dec 06 | 34-35   |
| Timber treatments for roof framing                              | Feb 06 | 20    | Training for building   | Jun 12 | 86-87   |
| Timber windows in a cavity                                      | Aug 15 | 26-27 | Women in construction   | Jun 03 | 44-45   |
| TimberSaver boron treated timber                                | Oct 05 | 94    |   |        |         |
| TimberSaver science   | Oct 05 | 29    | <b>Urban development see Smart growth</b>                                   |        |         |
| Totally timber, inside and out                                  | Apr 04 | 26-27 | Auckland knuckles down  | Feb 15 | 46-48   |
| Toxic fungi in water-damaged buildings                          | Apr 03 | 8-9   | Central city recovery   | Oct 11 | 66      |
| Toxic moulds in rotting buildings                               | Aug 02 | 44    | Climate change and Aussie cities  | Apr 07 | 46-47   |
| Treating cut ends of timber                                     | Dec 03 | 19    | Creating a master plan for Albany   | Apr 07 | 37-38   |
| Treatment and hazard classes                                    | Dec 03 | 12-13 | Design of good neighbourhoods   | Apr 07 | 42-43   |
| Treatment for dry rot (letter)                                  | Jan 00 | 6-7   | Designed-enabled communities - Stonefields and Long Bay                     | Oct 10 | 48-49   |
| Treatment of radiata pine                                       | Oct 97 | 11-12 | High density urban environments   | Apr 07 | 39-40   |
| Trends in timber use  | Jul 98 | 27-29 | Hobsonville Point - a community for the future                              | Oct 10 | 44-45   |
| Untreated radiata pine  | Aug 97 | 68-71 | How green is the garden city?   | Feb 15 | 62-64   |
| Untreated radiata pine for structural use                       | Nov 99 | 15    | Innovative answers to city housing  | Dec 13 | 77-79   |
| Use of untreated timber   | Dec 04 | 30-31 | Integrating landscape into the built form                                   | Oct 10 | 38-39   |
| Using moisture meters for timber                                | Mar 99 | 31-34 | Land-use planning and preferences   | Feb 11 | 74-75   |
| Warp research   | Jan 99 | 45-46 | Let the sun shine on Christchurch   | Feb 13 | 68-69   |
| Weathergrooves to prevent water entry                           | Oct 97 | 20    | Making central Wellington less windy  | Apr 07 | 52-53   |

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| Melbournes Council House 2, greenest building             | Apr 07 | 48-49  |     | Water efficiency labelling scheme                                      | Apr 08 | 56-57 |     |
| More resilient cities                                     | Oct 10 | 42-43  |     | Water use - drivers and savings  | Dec 12 | 68-69 |     |
| Neighbourhood sustainability                              | Oct 10 | 40-41  |     | Water use in Auckland homes  | Feb 09 | 66-67 |     |
| New Zealand's first Urban Design Panel                    | Apr 07 | 44-45  |     | Water views  | Jun 15 | 82-83 | 148 |
| Onwards and upwards                                       | Oct 13 | 8      |     | WEEP highlights water use inefficiency                                 | Apr 08 | 47-48 |     |
| Rebuilding the heart of Elephant and Castle               | Apr 07 | 50-51  |     | Where is Auckland's water going?                                       | Apr 08 | 54    |     |
| Reducing natural hazard risk on urban coastlines          | Dec 10 | 48-49  |     |  |        |       |     |
| Renewal for Christchurch                                  | Feb 15 | 42-45  | 146 | <b>Weathertightness see also Leaks, Moisture</b>                       |        |       |     |
| Residents' perceptions of Talbot Park                     | Feb 11 | 78-79  |     | 10 years not always a limitation                                       | Dec 10 | 64    |     |
| Revised land development standard NZS 4404:2010           | Oct 10 | 50     |     | A lingering legacy   | Oct 14 | 74-76 | 144 |
| Taupo Victoria Lot - place, identity, belonging           | Oct 10 | 46-47  |     | Adding eaves   | Aug 12 | 23-24 |     |
| Ten thoughts for Christchurch                             | Oct 11 | 68-69  |     | Aggravated thermal bridging  | Dec 11 | 52-53 |     |
| The power of suburbia                                     | Apr 13 | 74-75  |     | Air seals and windows  | Jun 05 | 24    |     |
|   |        |        |     | Amendments to the Weathertight Homes Resolution Service                | Dec 06 | 48-49 |     |
| <b>Ventilation</b>  |        |        |     | Appraisal criteria for claddings reviewed                              | Aug 02 | 54-55 |     |
| Agents of change  | Jun 14 | 62-64  | 142 | Attaching decks  | Feb 04 | 22-23 |     |
| Airflows in construction cavities                         | Sep 00 | 35-36  |     | Avoiding risky behaviour   | Dec 14 | 65-67 | 145 |
| BRANZ research in schools                                 | May 98 | 43     |     | Behavioural changes needed in the industry                             | Aug 02 | 30    |     |
| Changing the air indoors                                  | Dec 11 | 48-49  |     | BIA weathertightness overview group - prelim report                    | Aug 02 | 32    |     |
| Converting old buildings to apartments                    | Jul 00 | 49-50  |     | BRANZ builds new weathertightness test rig                             | Nov 01 | 12    |     |
| Design for indoor pools                                   | Feb 04 | 38-39  |     | BRANZ recommends   | Sep 01 | 11-12 |     |
| Good riddance to damp subfloors                           | Apr 13 | 63-65  |     | BRANZ Weathertightness poster - balustrade/parapet                     | Apr 03 | 10    |     |
| In-home ventilation system                                | Dec 06 | 20-21  |     | BRANZ weathertightness poster - complex building junctions             | Jun 04 | 30-31 |     |
| Keeping skillion roofs dry                                | Oct 05 | 38-39  |     | BRANZ weathertightness poster - deck barrier/wall junctions            | Feb 04 | 24-25 |     |
| Mandatory venting to outside                              | Mar 99 | 12     |     | BRANZ weathertightness poster - doors and balconies                    | Aug 03 | 22    |     |
| Mechanical home ventilation systems                       | Aug 07 | 42-43  |     | BRANZ weathertightness poster - ground clearances                      | Jun 03 | 54-55 |     |
| Mechanical ventilation                                    | Mar 00 | 46-47  |     | BRANZ weathertightness poster - penetrations                           | Apr 04 | 24-25 |     |
| Melbournes Council House 2, greenest building             | Apr 07 | 48-49  |     | BRANZ weathertightness poster - roof detailing                         | Oct 03 | 22    |     |
| NZS 4303:1990   | May 98 | 43     |     | BRANZ weathertightness poster - roof/wall junction                     | Feb 03 | 8-9   |     |
| Placement and effectiveness                               | May 98 | 42, 47 |     | BRANZ weathertightness poster - window flashings                       | Dec 03 | 23    |     |
| Removing air pollutants                                   | May 98 | 43     |     | Building failures  | Dec 07 | 54-55 |     |
| Roof ventilation in the Falklands                         | Jul 01 | 17-18  |     | Building industry reform   | Feb 03 | 8     |     |
| Serious case of moisture                                  | Dec 11 | 50-51  |     | Building to keep the weather out - the 4Ds                             | Oct 03 | 16    |     |
| Subfloor corrosion research                               | Jan 98 | 45-46  |     | Buying a problem   | Feb 12 | 60    |     |
| Subfloor ventilation                                      | Oct 06 | 34-36  |     | Can drainage mats perform in New Zealand?                              | Aug 10 | 46-47 |     |
| Subfloor ventilation                                      | Jun 97 | 17-18  |     | Canadian experts visit BRANZ   | Aug 02 | 34-36 |     |
| Subfloors   | May 98 | 70     |     | CINZ forum   | Feb 03 | 9     |     |
| Ventilation and subfloors                                 | Aug 15 | 76-77  | 149 | Cladding defects study   | Sep 01 | 8     |     |
| Ventilation dries attic space                             | Jun 15 | 78-79  | 148 | Collaborative research with North America                              | Jan 02 | 12    |     |
| Weathertightness research - ventilation in cavities       | Aug 05 | 68-69  |     | Concealed guttering  | Feb 08 | 25    |     |
|   |        |        |     | Costs of damage  | Mar 99 | 8     |     |
|   |        |        |     | Danger lurks   | Jun 13 | 62-63 |     |
| <b>Walls see Claddings (external), Linings (internal)</b> |        |        |     | Dealing with a leaky building  | Dec 07 | 49-50 |     |
| Flashing the hip ridge junction                           | Aug 03 | 12     |     | Designing for extreme weather  | Jul 01 | 39-40 |     |
| Locating walls  | Jun 15 | 26-27  | 148 | Detailing cladding penetrations  | Jun 15 | 33-34 | 148 |
| Wall linings  | Apr 08 | 86-87  |     | Detailing penetrations in profiled claddings                           | Jun 05 | 48-49 |     |
| Wall underlay installation                                | Aug 09 | 15-17  |     | Detailing to protect against moisture damage                           | Mar 99 | 45-47 |     |
| Weatherproofing concrete block walls                      | Jun 10 | 25-26  |     | Details a click away   | Oct 13 | 60    |     |
| What makes weatherboards weathertight?                    | Dec 08 | 64-65  |     | Differences between details in E2/AS1 and BRANZ Weathertight Solutions | Dec 06 | 22-23 |     |
|   |        |        |     | Drainage from the back of the cladding                                 | Aug 10 | 24    |     |
| <b>Warp</b>   |        |        |     | Drained and vented cavities  | Jun 05 | 46-47 |     |
| Research into structural timber                           | Jan 99 | 45     |     | Drained and ventilated cavities  | Jul 01 | 42-43 |     |
|   |        |        |     | Drained and ventilated cavities  | Aug 02 | 52    |     |
| <b>Warrant of Fitness for buildings</b>                   |        |        |     | Drying in wall cavities  | Aug 10 | 44-45 |     |
| How fire safe is your building?                           | Sep 01 | 46-47  |     | Drying rates in walls  | Jun 07 | 66-67 |     |
| Maintaining your buildings warrant of fitness             | Oct 06 | 66     |     | E2 and E2/AS1  | Aug 10 | 27-29 |     |
|   |        |        |     | E2/AS1 BRANZ seminar questions   | Feb 05 | 77    |     |
| <b>Waste reduction see Construction waste</b>             |        |        |     | E2/AS1 BRANZ seminars  | Dec 04 | 62    |     |
| Christchurch rebuild                                      | Oct 11 | 34-39  |     | Eaves and recent design trends   | Sep 98 | 17-18 |     |
| Construction waste reduction                              | Apr 09 | 72-73  |     | Extending the gable  | Aug 12 | 25    |     |
|   |        |        |     | Fibre-cement board   | May 98 | 23    |     |
| <b>Water</b>  |        |        |     | Finding weathertightness performance limits                            | Oct 02 | 74    |     |
| Australian strategies to reduce water use                 | Apr 08 | 58-59  |     | Flashing brick veneer infill panels                                    | Feb 07 | 26-27 |     |
| Benchmarking water use in office buildings                | Aug 11 | 58-59  |     | Flashings - more than window dressing                                  | Dec 07 | 58-59 |     |
| Benchmarking water use in office buildings                | Jun 10 | 80-81  |     | Flashings keep water out   | Feb 09 | 48    |     |
| Building on what BEES uncovered                           | Dec 14 | 52-54  | 145 | Folding barge and apron flashings                                      | Oct 07 | 30-31 |     |
| Commercial water use in Auckland                          | Dec 12 | 70-71  |     | Guide to weathertightness design principles                            | Jun 06 | 98    |     |
| Easing the pressure on water                              | Dec 09 | 64-65  |     | High Court decision in leaky home dispute                              | Apr 07 | 68-69 |     |
| New Kapiti houses water saving devices                    | Apr 08 | 60-61  |     | Homeowners maintenance requirements                                    | Aug 10 | 31    |     |
| Plug the gaps   | Aug 15 | 82-83  | 149 | Horizontal cladding joints   | Aug 04 | 12-13 |     |
| Rainwater and greywater                                   | Dec 14 | 62-63  | 145 | How many 'Ds' are under your roof?                                     | Aug 02 | 18-19 |     |
| Rainwater tanks   | Dec 09 | 23-24  |     | How weathertight are junctions?  | Oct 14 | 68-70 | 144 |
| Repairing flood-damaged houses                            | Oct 14 | 78-80  | 144 | ICBEST conference 2010   | Oct 10 | 77    |     |
| Solar and heat pump water heating                         | Oct 10 | 56     |     | Inaction worry   | Oct 13 | 49-50 |     |
| Solar water heating systems                               | Dec 09 | 62-63  |     | Installing a window with no cavity                                     | Oct 05 | 32-33 |     |
| Sun + water = heat  | Oct 12 | 80     |     | Junctions and openings, keeping water out                              | Sep 00 | 44-50 |     |
| The economics of water heating                            | Feb 12 | 36-37  |     |  |        |       |     |
| The national value case for saving water                  | Apr 08 | 50-51  |     |  |        |       |     |

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|---|--------|-------|---|--------|---------|-----|
| Latest legal on leaky building saga                             | Aug 10 | 66-67 | Weathertight Homes Resolution Service gets more clout | Oct 06 | 84      |     |
| Leaking buildings, the solution                                 | Sep 00 | 30-33 | Weathertight Homes Resolution Service set up          | Dec 02 | 9       |     |
| Leaky building challenges                                       | Aug 10 | 42-43 | Weathertight Homes Resolution Services Act            | Feb 03 | 10-11   |     |
| Leaky cases   | Oct 13 | 94    | Weathertight Homes Resolution Services Act            | Jun 07 | 86      |     |
| Leaky homes lesson  | Apr 14 | 88-89 | Weathertight Service sees claims rise                 | Aug 10 | 40-41   |     |
| Legal A-Z of leaky buildings                                    | Oct 13 | 52-54 | Weathertight window in 10 steps                       | Aug 05 | 30-31   |     |
| Lessons from North America, leaking buildings                   | Jan 01 | 18-19 | Weathertightness and brick veneer cavities            | Oct 08 | 22-23   |     |
| Living with the leaky building legacy                           | Aug 12 | 48-49 | Weathertightness and CCCs                             | Feb 05 | 74-75   |     |
| Looking to the future   | Aug 04 | 52-53 | Weathertightness basics                               | Oct 13 | 46-47   |     |
| Managing air-pressure differences                               | Aug 04 | 14-15 | Weathertightness basics - small construction details  | Oct 10 | 19-20   |     |
| Measuring moisture content-resistance & capacitance meters      | Aug 02 | 42-43 | Weathertightness forum brings industry up to date     | Aug 02 | 38-40   |     |
| Minimising builders risk  | Aug 10 | 22    | Weathertightness forum shares ideas                   | Feb 09 | 46-47   |     |
| Moisture in parapets  | Dec 09 | 86-87 | Weathertightness research - cavity walls              | Jun 06 | 54-55   |     |
| More than just remediating                                      | Aug 10 | 53-54 | Weathertightness research - drying rates in walls     | Aug 04 | 58-59   |     |
| Negotiating the leaky building maze                             | Aug 12 | 50-51 | Weathertightness research - ventilation in cavities   | Aug 05 | 68-69   |     |
| New directions for BRANZ research                               | Jan 02 | 52-53 | Weathertightness research at BRANZ                    | Jun 03 | 62      |     |
| On-site framing treatment                                       | Oct 13 | 58-59 | Weathertightness risk matrix                          | Jun 05 | 38-41   |     |
| Overseas experiences  | Sep 01 | 13    | Weathertightness tips for windy sites                 | Jun 10 | 16-18   |     |
| Parapet and enclosed balustrade construction                    | Jun 09 | 18-20 | What makes weatherboards weathertight?                | Dec 08 | 64-65   |     |
| Parapet wall systems and drainage planes                        | Dec 07 | 56-57 | Whats happening with remediation?                     | Feb 09 | 40-42   |     |
| Penetrations - importance of good design                        | Oct 03 | 20-21 | WHRS seeking more assessors                           | Jun 03 | 52-53   |     |
| Penetrations through the wall cladding                          | Feb 10 | 17    | WHRS still receiving applications                     | Aug 04 | 54-56   |     |
| Pipe penetrations through claddings                             | Dec 07 | 26-27 | Who's left holding the baby?                          | Oct 14 | 100-101 | 144 |
| Plastered clay-brick veneers                                    | Jun 05 | 60-61 | Wind and air barriers                                 | Aug 08 | 17      |     |
| Preventing collapse of enclosed decks                           | Jun 06 | 90-91 | Window and door cladding penetrations                 | Aug 10 | 19-20   |     |
| Preventing problems in existing buildings                       | Nov 98 | 69    | Window and door jambs                                 | Apr 04 | 18-19   |     |
| Preventing problems in new buildings                            | Aug 97 | 67    | Window jambs  | Feb 04 | 20-21   |     |
| Progress addressing weathertightness                            | Dec 07 | 47-48 | Window weathertightness                               | Feb 07 | 78-79   |     |
| Progress on weathertightness - Claddings Institute              | Jul 01 | 49-50 | WUFI - modelling tool for NZ conditions               | Aug 10 | 62-63   |     |
| Purpose of a cladding cavity                                    | Apr 04 | 38-40 |   |        |         |     |
| Refresher on flashings  | Oct 04 | 76-77 |   |        |         |     |
| Remediation design  | Aug 10 | 48-49 | <b>Wind</b>   |        |         |     |
| Remediation of leaky buildings                                  | Aug 12 | 21-22 | Beam and truss uplifts                                | Aug 15 | 38      | 149 |
| Remediating substandard original work                           | Aug 10 | 56    | Chilterns gateway centre, United Kingdom              | Dec 07 | 16-17   |     |
| Replacing timber windows with aluminium                         | Dec 05 | 24-25 | Costs of building in high wind zones                  | May 00 | 8-9     |     |
| Risk assessment   | Apr 03 | 26    | Damaging Northland storm                              | Jun 15 | 47-48   | 148 |
| Selecting claddings   | Apr 04 | 34-36 | Deflecting the wind                                   | May 00 | 14      |     |
| Selecting weatherboards and their fixing                        | Apr 04 | 44-46 | Design prediction of wind-induced building motion     | Apr 09 | 62-63   |     |
| Setting the standard for weathertightness                       | Dec 07 | 60-61 | Designing for gales                                   | May 00 | 28-31   |     |
| Sill flashings for windows and doors                            | Jun 04 | 14-15 | Determining your wind zone                            | Apr 04 | 42      |     |
| Steering committee announced for Weathertight Buildings Project | May 01 | 18    | Don't blow me away                                    | Feb 15 | 32-33   | 146 |
|   | May 01 | 44    | Effects of wind pressures on roofs                    | May 99 | 11-12   |     |
| Steering group to tackle weathertight problems                  | May 01 | 10-11 | Extra high wind zone                                  | Feb 12 | 26-27   |     |
| Steering Group update   | Sep 01 | 31    | Generating energy at home - micro-scale technology    | Aug 08 | 54-55   |     |
| Steering Group update   | Aug 02 | 5     | Making central Wellington less windy                  | Apr 07 | 52-53   |     |
| Steering Group update   | Oct 02 | 9     | Measuring wind pressures on buildings (research)      | May 99 | 33-34   |     |
| Steering Group update   | Dec 02 | 19-20 | Membrane barriers in high wind zones                  | May 00 | 46      |     |
| Stopping water entry around a meter box                         | Apr 06 | 22    | Periphery roof areas                                  | Jun 08 | 16-17   |     |
| Strawbale building, design guidelines                           | Sep 98 | 16    | Retrofitting to resist extreme wind                   | Aug 08 | 80-81   |     |
| Stucco - detailing the options                                  | Aug 03 | 20    | Roofing on exposed sites                              | May 00 | 44-45   |     |
| Stucco and acrylic paint  | May 98 | 63    | Roofs and footings for veranda posts                  | Feb 97 | 17      |     |
| Stucco control joints   | Dec 04 | 20    | Te Aroha windstorm (Nov 1998)                         | May 99 | 30-31   |     |
| Stucco to weatherboard junctions                                | Jan 01 | 20    | Wind and air barriers                                 | Aug 08 | 17      |     |
| Synthetic rubber waterproof decks                               | Dec 07 | 23-24 | Wind and building design                              | Aug 06 | 43      |     |
| Take care when repairing leaky buildings                        | Aug 07 | 36-37 | Wind barriers and specific design                     | Aug 03 | 13      |     |
| Teaching material on the web                                    | Aug 02 | 50    | Wind barriers using plywood                           | Jan 00 | 14-15   |     |
| The 4Ds principles  | Aug 10 | 16-17 | Wind effects on buildings                             | Jun 10 | 76-77   |     |
| The benefits of being linked in                                 | Oct 14 | 91-92 | Wind loads on hilly sites and NZS 4203:1992           | Nov 98 | 48-50   |     |
| The problems with decks and balconies                           | Aug 07 | 14-16 | Wind pressure 101                                     | Oct 09 | 32-33   |     |
| The remediation specialist                                      | Aug 10 | 50-51 | Wind zones - how to design for them                   | Jun 02 | 24      |     |
| The science behind dry walls                                    | Oct 13 | 55-57 | Wind zones and building                               | Aug 06 | 44-45   |     |
| The what, why and where of leaky buildings                      | Feb 09 | 39    | Wind zones and NZS 3604                               | Feb 12 | 24-25   |     |
| Timing is everything  | Aug 13 | 80-81 | Wind zones under NZS 3604                             | May 00 | 33-35   |     |
| Toxic fungi in water-damaged buildings                          | Apr 03 | 8-9   | Wind-induced motion of tall buildings                 | Feb 13 | 78-79   |     |
| Underlays and window head flashings                             | Aug 03 | 14-15 | Window wind zones                                     | Apr 12 | 27      |     |
| Underwear for claddings   | Apr 04 | 48-50 |   |        |         |     |
| Vapour barriers and underlays                                   | Apr 07 | 16-18 | <b>Windows see also Double glazing, Glazing</b>       |        |         |     |
| Ventilation drying in cavities                                  | Feb 09 | 44-45 | Adapting windows to reduce noise                      | Jul 00 | 51-52   |     |
| Wall underlay installation                                      | Aug 09 | 15-17 | Air seals and backing rods                            | Feb 08 | 18      |     |
| Wanted: good builders to rescue industry reputation             | Aug 10 | 38-39 | Air seals and windows                                 | Jun 05 | 24      |     |
| WANZ 'WIS' system for windows                                   | Aug 02 | 56-57 | Aluminium window corner soakers                       | Oct 03 | 10      |     |
| Water damage, causes and results                                | Mar 99 | 24-27 | Aluminium windows                                     | Aug 05 | 28-29   |     |
| Waterproofing basements   | Oct 08 | 31-32 | An insight into windows (WERS)                        | Sep 01 | 65-66   |     |
| WAVE goodbye to leaks   | Apr 10 | 74    | BRANZ weathertightness poster - window flashings      | Dec 03 | 23      |     |
| Weathergrooves - do they work?                                  | Jun 15 | 80-81 | Condensation on windows                               | Apr 03 | 18      |     |
| Weathergrooves to prevent water entry                           | Oct 97 | 20    | Detailing windows for brick veneer                    | Feb 06 | 16-17   |     |
| Weatherproofing reverse slope eaves                             | Oct 03 | 18-19 | Direct-fix window installation                        | Feb 12 | 16-17   |     |
|   |        |       | Double glazing becoming more common                   | Sep 00 | 8-9     |     |

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| Drained cavity window installation                                    | Jun 12 | 16-17 |     |
| E2/AS1 - Drained cavity and openings                                  | Apr 09 | 15-17 |     |
| Finishes for aluminium joinery  | Oct 03 | 12-13 |     |
| Fitting tolerances  | Mar 98 | 68    |     |
| Flashing above windows with facing boards and bevelback weatherboards | Apr 07 | 20    |     |
| Flashings and leaks   | May 00 | 12-13 |     |
| Heat-retaining window systems   | Jan 00 | 57    |     |
| How green are windows in Australia?                                   | Dec 07 | 76-77 |     |
| Installing a window with no cavity                                    | Oct 05 | 32-33 |     |
| Installing windows  | Jun 08 | 20-21 |     |
| Managing air-pressure differences                                     | Aug 04 | 14-15 |     |
| Moving to seismic frames  | Apr 02 | 38-40 |     |
| New Australian Standard   | Jan 00 | 67    |     |
| New window ratings  | Feb 14 | 72-73 | 140 |
| Replacing timber windows with aluminium                               | Dec 05 | 24-25 |     |
| Restoring heritage double-hung windows                                | Apr 10 | 16-17 |     |
| Sill flashings for windows  | Apr 05 | 26-27 |     |
| Sill flashings for windows and doors                                  | Jun 04 | 14-15 |     |
| Sill tray installation  | Dec 03 | 18    |     |
| Specifying and installing aluminium windows                           | Jan 98 | 59-60 |     |
| Supporting heavy windows  | Feb 11 | 72-73 |     |
| Surface coefficients for windows                                      | Feb 13 | 35    |     |
| Timber joinery installation with board and batten                     | Oct 05 | 36-37 |     |
| Timber windows in a cavity  | Aug 15 | 26-27 | 149 |
| Timber windows in profiled-metal cladding                             | Aug 06 | 22-23 |     |
| Underlays and window head flashings                                   | Aug 03 | 14-15 |     |
| WANZ 'WIS' system for windows   | Aug 02 | 56-57 |     |
| WANZ WIZ - Drained cavity and openings                                | Apr 09 | 19-20 |     |
| Weathertight window in 10 steps                                       | Aug 05 | 30-31 |     |
| Window and door cladding penetrations                                 | Aug 10 | 19-20 |     |
| Window and door jambs   | Apr 04 | 18-19 |     |
| Window Efficiency Rating System (WERS) launched                       | Sep 00 | 52-53 |     |
| Window frame selection  | Oct 11 | 25-26 |     |
| Window head flashing with bevelback weatherboards and cavity          | Aug 07 | 26-27 |     |
| Window jambs  | Feb 04 | 20-21 |     |
| Window weathertightness   | Feb 07 | 78-79 |     |
| Window wind zones   | Apr 12 | 27    |     |
| Windows can now star  | Dec 14 | 84-85 | 145 |
| Windows for energy efficiency   | Oct 12 | 32-33 |     |