



Class 1 Home Fire Sprinklers: Problems and Solutions

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Who is the Home Fire Sprinkler Coalition Australia?

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1. THE Problem

On average, 64 Australians are recorded each year as 'preventable residential fire fatalities' – of which, around 62% are people living with a disability



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1. Solution

Automatic home fire sprinklers



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2. Problem – NCC Volume 2

- No requirement for home fire sprinklers in Class 1 homes
- Minimal fire safety objectives for Class 1 homes



2. Solution – Develop PFC for NCC 2028

- Seek mandatory requirement for all new Class 1 homes
- Proposed system needs to be safe, reliable, cost-effective and fit-for-purpose for Australian Class 1 homes



3. Problem – NCC Volume 3, PCA

Unworkable mandatory performance requirement introduced in NCC 2022 for Class 1 fire sprinklers – 112L/min



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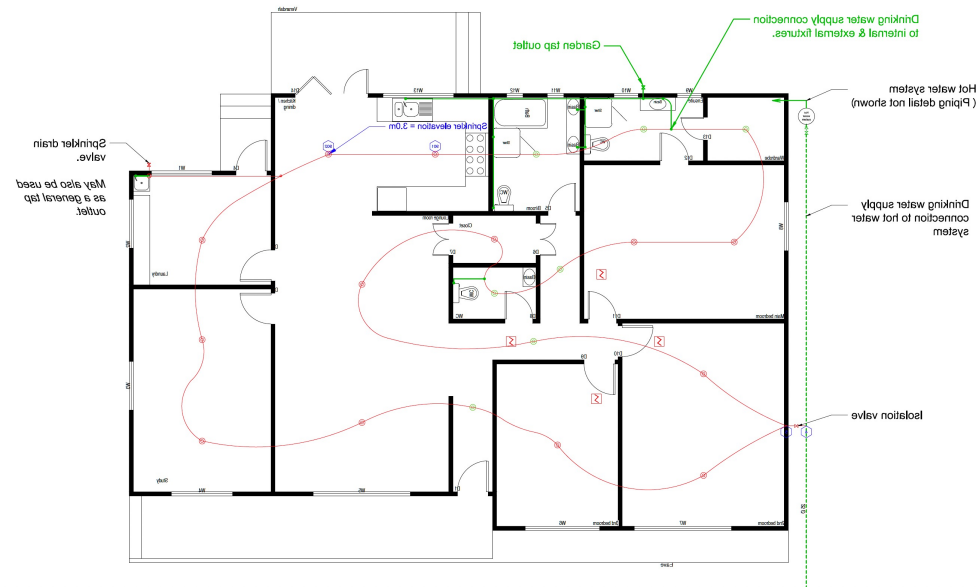
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 **FIRE**
AUSTRALIA2025

3. Solution - HFS102

HFS102 Interim Standard



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4. Problem - NDIS

- Funding available within scheme, but not promoted
- Different regulation for the building and the participant



4. Solutions – Collaboration and education

- Review of SDA Design Standard
- Collaborating closely with NDIS Commission and FRV to advocate for home fire sprinklers in disability accommodation



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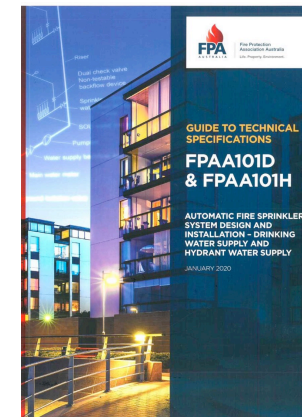
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5. Problem – State/Territory regulation

Regulation has not kept pace with NCC provisions since 2019, when integrated drinking water-fire sprinkler system was accepted as a DtS solution for mandatory sprinklers in mid-rise shared residential buildings



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5. Solutions – More collaboration and education

- Consultation, collaboration and education
- Develop solutions for regulators
- Professional development for plumbing teachers



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6. Problem – Risks to other stakeholders

Critical dependence on water supply authorities, which have different statutory obligations and strategic directions



6. Solutions

- WSAA risk assessment
- HFS102 Interim Standard
- Independent SME research and studies

Water quality risk assessment of automatic fire sprinkler design HFS102 for Class 1 buildings



7. Problem – Training and education



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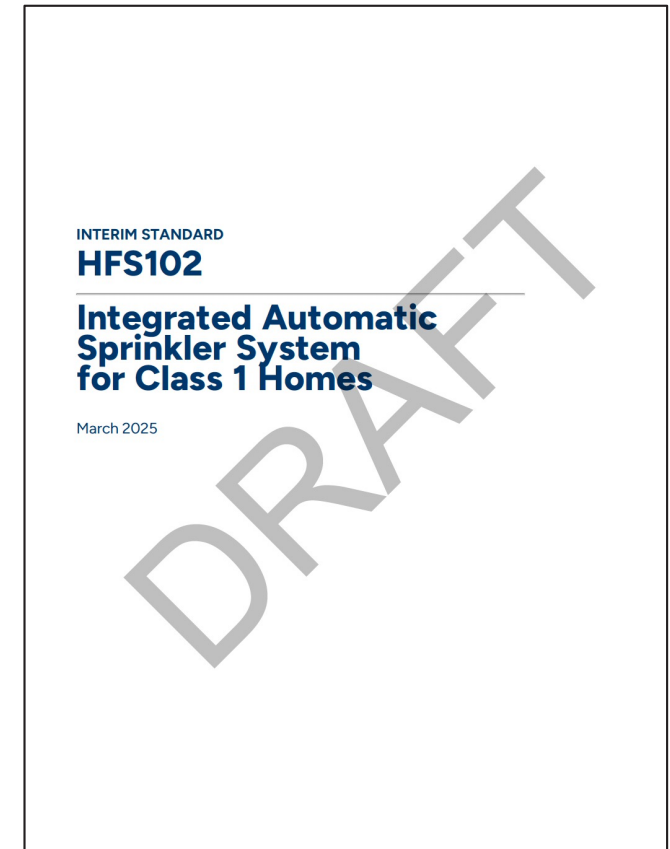
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7. Solution

- HFS102 Interim Standard
- Secure recognition for NFIA course
- Additional material for integrated systems



8. Problem – Status quo

- Vested interests
- Divided regulation, education, licencing, politics
- Lessons learned - PFC for NCC 2019



8. Solution

Close collaboration, consultation and shared objectives



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9. Problem – Consumer awareness/understanding

Flatline



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9. Solution

Mandatory fire sprinklers in all new
Class 1 builds covers 'Class 1c'



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10. Problem – Fire brigades



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10. Solution – AFAC and agency leadership



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Thank you
Questions?

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