Flood Resilient Homes Program

Showcase of flood-resilience works on Brisbane properties

How design of flooring, walls, electricals and choice of building materials can improve flood resilience.

An initiative of

BRISBANE CITY

Dedicated to a better Brisbane

In partnership with

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Raising appliances

Issue

During a flood, damage to services, appliances and electrical circuits can cause safety issues and potentially thousands of dollars in replacement and repair costs.

Solution

Raising appliances and utilities above flood levels is one of the simplest ways to make a property more flood resilient.

- **A** Air conditioner condenser is raised with wall brackets above the expected flood level to allow ongoing usage.
- **B** Hot water system is placed on an elevated cement plinth to ensure supply of hot water during flooding.
- **C** Raising a washing machine on a stainless steel bench will prevent it being damaged during a flood.

The following electrical works are also beneficial:

- Install separate circuits on lower and upper levels so that you still have power on the upper level when flooding occurs.
- Raise height of the General Power Outlets to minimise damage.

Outcome

This will allow for continued essential services and improve electrical safety, providing peace of mind and saving on replacement and damage repair expenses.


B
rinnai
hotflo


C
ENERGY RATING
WATER RATING

Flood-resilient floors and cabinets

Issue

Flood waters can inundate floor areas causing damage that can be costly and time consuming to repair.

Solution

A. Replace existing cabinetry with water-resistant cabinetry made of materials such as compact laminate and solid surface benchtops.

B. Replace existing flooring (carpet) with water-resistant flooring such as tiles. Tiles can also be used as skirtings.

C. Make the first stair riser removable.

Outcome

If floodwater enters the property, water damage can be avoided to floors and cabinetry, and cleaning and drying of the stair cavity made easier, reducing the time required to recover.


B


C

Flood-resilient walls

Issue

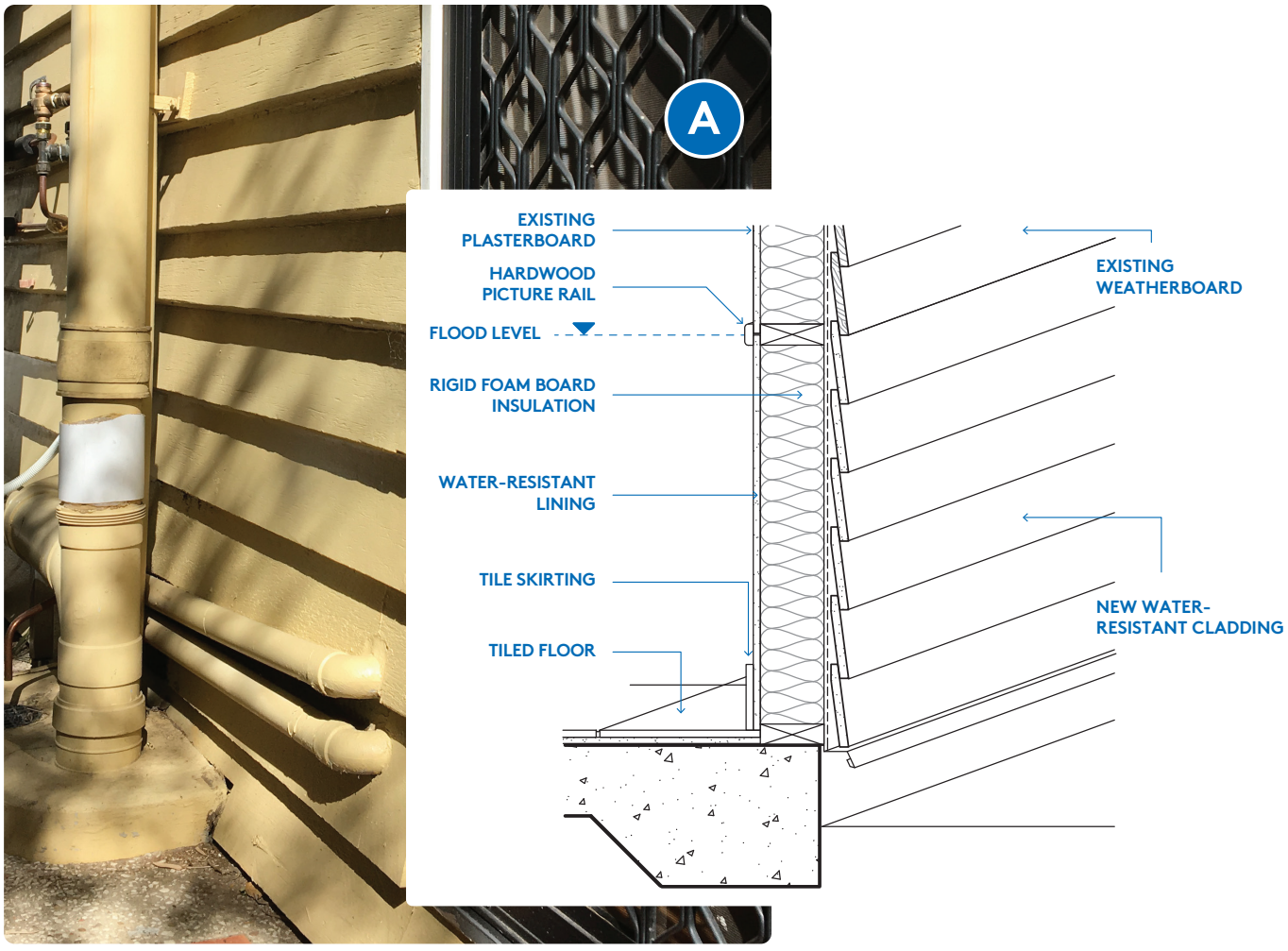
A typical Brisbane property generally has cavity walls that will trap and absorb water following flooding. Cleaning up is difficult and walls may have to be replaced, meaning residents will not be able to recover quickly after a flood event.

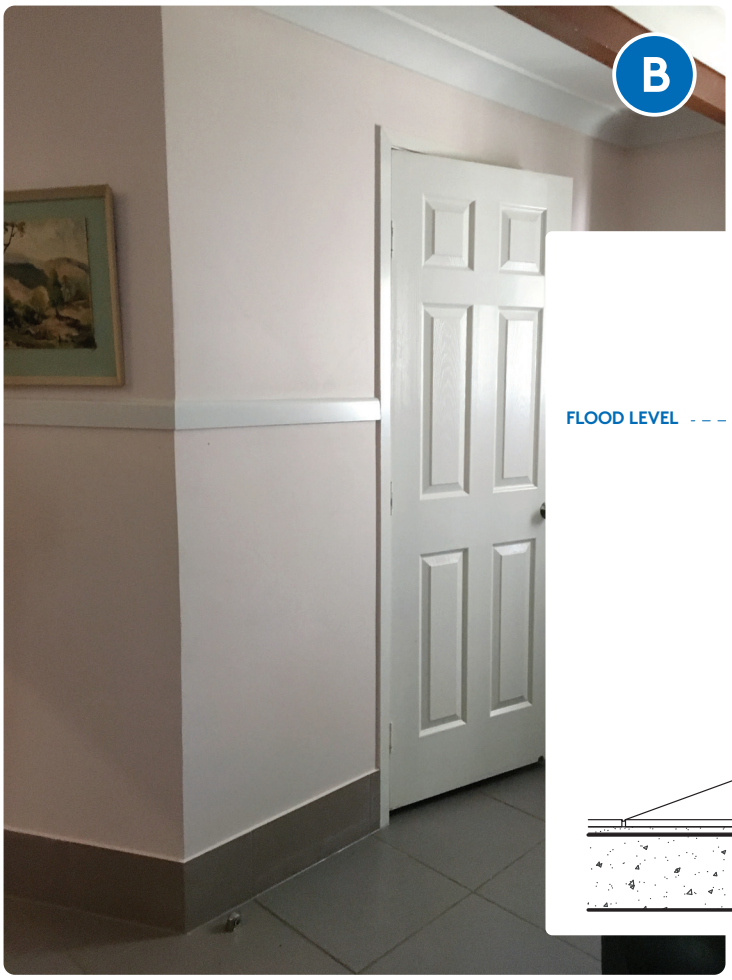
Solution

- **A** Install new water-resistant external wall cladding, match colour with original.
- **B** Replace internal wall lining with water-resistant lining, e.g. replace plasterboard with villaboard.
- **C** Replace cavity walls with water-resistant non-cavity walls.

Outcome

Damage to wall linings can be prevented and water entering the cavity can be avoided, thus allowing for easier clean-up after a flood event and preventing mould growth inside the wall cavity.

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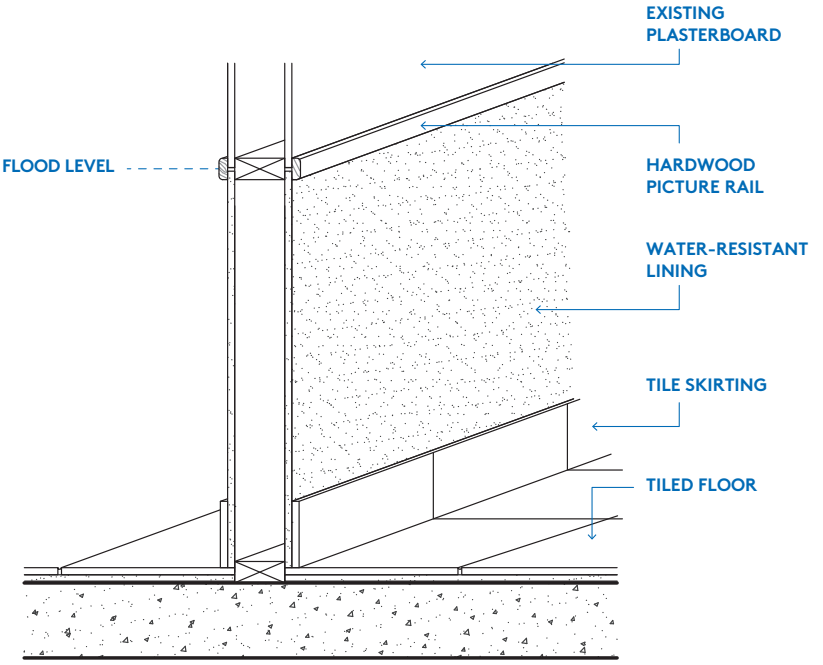
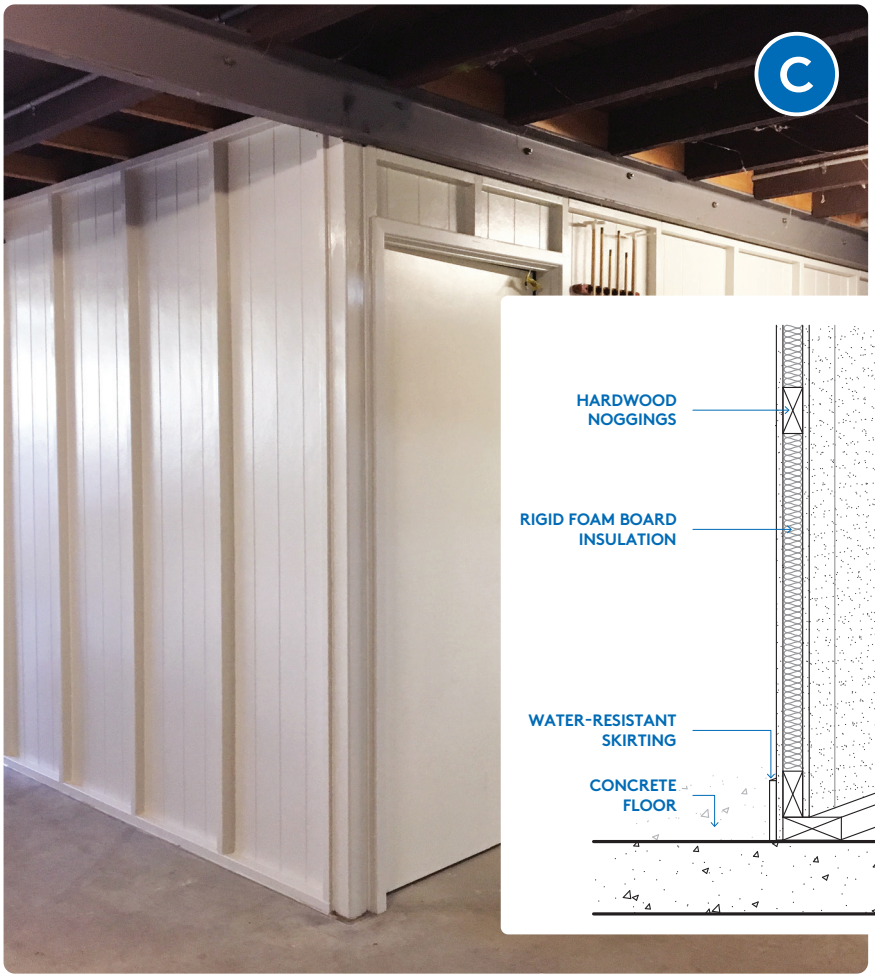

EXISTING PLASTERBOARD
FLOOD LEVEL
HARDWOOD PICTURE RAIL
WATER-RESISTANT LINING
TILE SKIRTING
TILED FLOOR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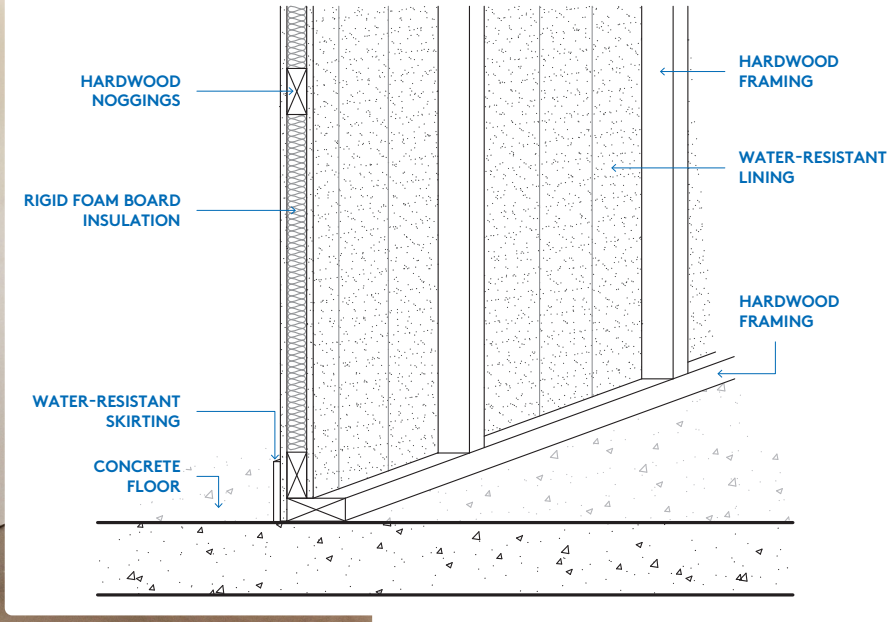
HARDWOOD NOGGINGS
RIGID FOAM BOARD INSULATION
WATER-RESISTANT SKIRTING
CONCRETE FLOOR
HARDWOOD FRAMING
WATER-RESISTANT LINING
HARDWOOD FRAMING

Take a virtual tour of a flood-resilient home to see a showcase of design and building materials online at **sustainablebrisbane.com.au/floodwise**

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