

# Construction and Design Defects in High-Rise Buildings

Dangerous Decks and Balconies - leaking buildings

Waterproofing challenges, Roofs, Walls and Floors

inc Box Gutters and Overflows - Design Compliance

Gutters, Downpipes and Flashings



ARCHITECTS - BUILDERS- DESIGNERS- BUILDING SURVEYORS- ENGINEERS- ROOF PLUMBERS



WED 14th MARCH 2018

KARSTENS CONFERENCE CENTRE MELBOURNE

Cost: \$130pp inc afternoon tea

123 Queen St, Melbourne

Time: 1.00pm - 5.00pm

Register at [www.adebevents.com](http://www.adebevents.com)

Call 1300 667 709 or email [events@jazcorpaustralia.com.au](mailto:events@jazcorpaustralia.com.au) for more information

SPEAKER

Australian Institute of Waterproofing President

Paul Evans

&

David Hepworth

Terry Bush

Building Consultant

**Waterproofing membranes for external above-ground use**  
**Materials - Roofs Decks Balconies includes ;**

AS 4654.1-2012 PART 1 MATERIALS & PART DESIGN AND INSTALLATION SUPERSEDES AS 4654.1- 2009

The objective of this Standard is to provide a consistent and reliable approach to the design and installation of external waterproofing membrane systems for roofs, decks & balconies. The purpose of this revision was to align this Standard with the protocols and requirements as set out by the Australian Building Codes Board (ABCB).

**Designing and Installing Box- Gutters -**  
**Achieving Compliance with relevant Victoria Regulations**

Leaking box gutters are one of the most common causes of roof leaks.

Long term box gutter leaks into the brick wall can cause the end of the rafter or floor joist to rot and sag under the weight of the roof or floor.

Box gutters are deemed to satisfy in meeting the performance requirements of the National Construction Code if they are certified to meet one of the following referenced Australian Standards

- AS/NZS 3500.3 Plumbing and drainage Part 3: Stormwater drainage.
- AS/NZS 3500.5 Plumbing and drainage - Part 5: House installations.

Architects, draftpersons, builders and other practitioners responsible for designing a box gutter need to ensure that the overall design and installation will be compliant with relevant regulations.

These regulations and challenges will be discussed

**Victorian Building Regulations 2017**

Waterproofing Mandatory Inspections - Updates and impacts for Builders and Building Surveyors

**AS/NZS 3500.3 Roof & Wall Cladding -**  
Steel Technologies & Insulated Roof Panels - The challenges of designing and installing metal roofs

**AS/NZS 2904 Damp Proof Courses and Flashings-** Specifies requirement for damp-proof course and flashing materials of the sheet membrane, strip and collar type for use in building construction  
Understand design and installation intricacies of detailing roof and wall flashing for metal cladding

Steve Mort - National Technical Manager

**'Construction in Australia – 50 times more expensive than it should be'**

Learning Outcomes

- Identifying major water problems in New Construction
- Air conditioning impacts on moisture
- Apply AS3740 and NCC 2016 to ensure waterproofing of internal wet areas
- Understand why most buildings are lasting less than 10 years



**TREMCO**



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