

#### RISK ASSESSMENT BY TOM







#### Who am I?

I was born in Australia....yes, another Aussie blow in!

I am a private building surveyor, consultant and problem solver

I have a few qualification and post-operate places where the form of the construction industry. I worked in Councils for the company Certifiers 2U places in the company Certifiers 2U places in the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and lam currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government departments in Sustralia grant of the community and I am currently advising 7 associations and government department of the community and I am currently advising 7 associations and government department of the community and I am currently advising 8 associations and government department of the community and I am currently advising 8 associations and government department of the community and I am currently advising 8 associations and government of the community and I am currently advised and government of the community and I am currently advised and government of the community and government of the community

#### Why am I here?

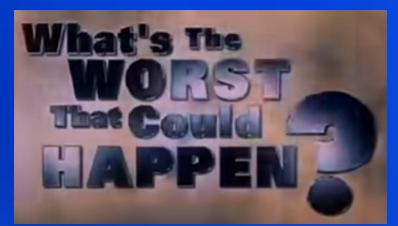
Every person in this room and watching online makes choices that will affect your own life and can affect the lives of thousands of others

I'm here to take you on a journey of a typical construction process and the choices that need to be made

How we make those choices is intertwined with the level of risk we can live with

Outgoing NSW Building Commissioner David Chandler said:

"The standard you are prepared to walk by is the standard you are prepared to accept."









We are going to do a short quiz. Everyone here and online can join in.

I know you have just been told to turn your phones off – this is your first risk assessment!

On your phone or device go to Kahoot.it

Type in the game pin or use the QR code

Enter your name and then see your name come up

on the screen!

There are a series of questions and proposed answers

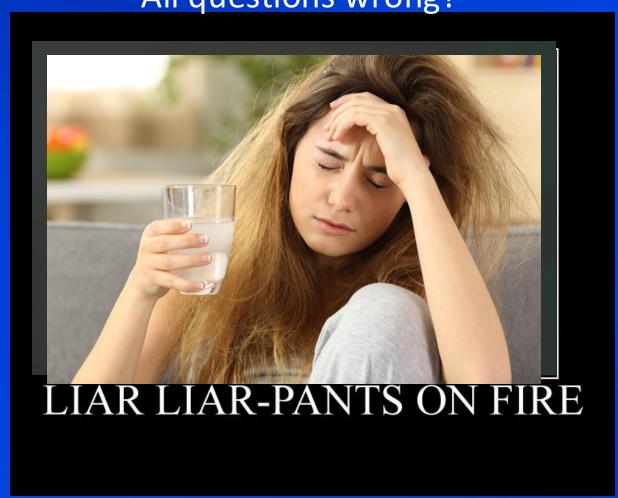
You will have 90 seconds to answer each one

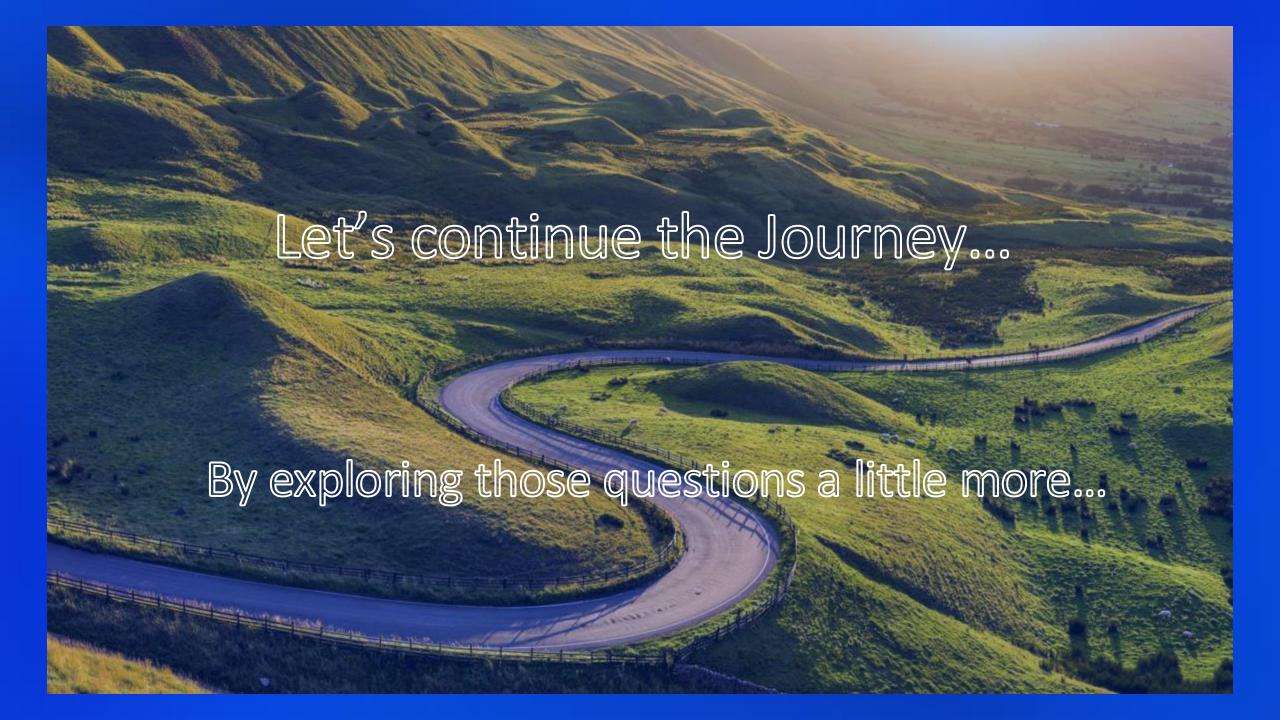


Let's get started – warning there may be some distressing content but it is necessary for the importance of this discussion.

The results are in. We know who came first second and third.. but what about the rest of you?

Some right and some wrong?
All questions wrong?





Question 1 Does the design, building code?

## materials and product integration comply with the What's the worst that can happen?



No proper integration Non-complying products and materials



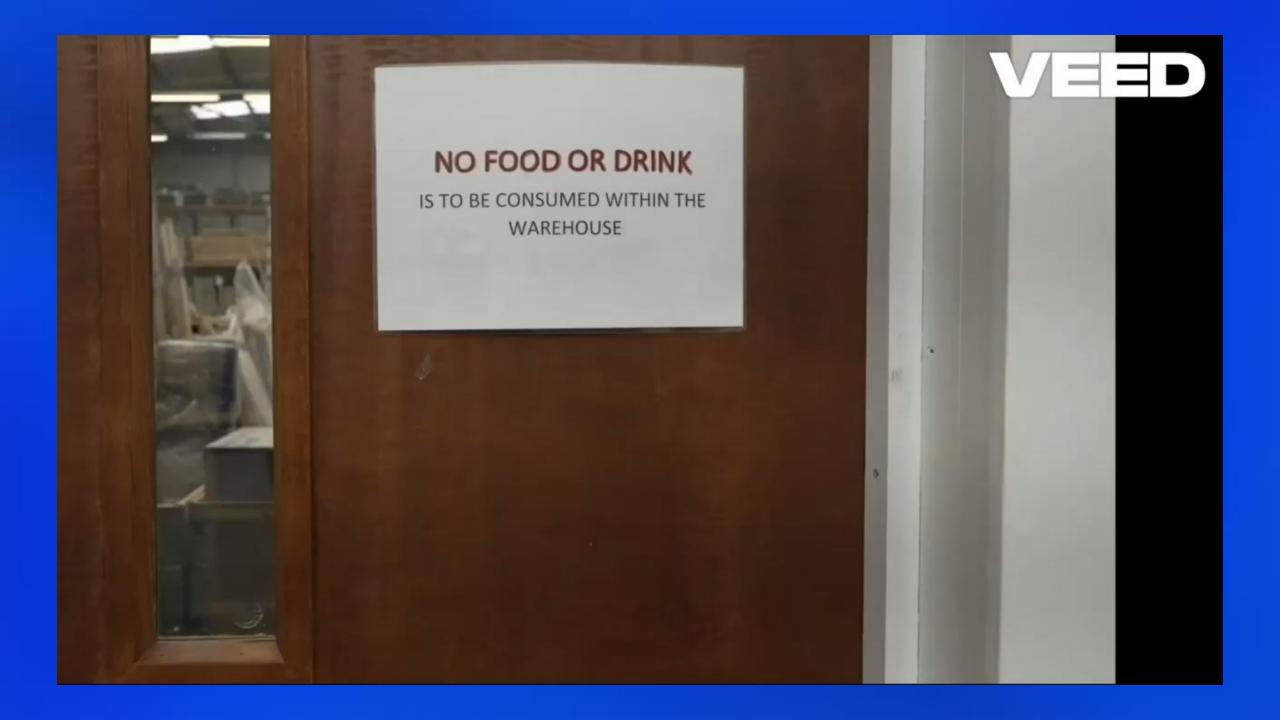
Lakanal House 6 deaths





Grenfell 72 deaths





Will NZ follow the same pattern as London or will YOU not let that happen?

Loafers Lodge 6 deaths



Many regulators, some probably here today, want to water down product testing requirements for 'innovation' and 'cost cutting'

### Making it easier to build



Posted: 4 April 2024

The Government has announced a package of initiatives that will increase housing supply by reducing barriers, improving competition in the building system and lowering costs.



That will only lead to less safe buildings

#### Product Testing

#### **TEST REPORT**

CLIENT :

TEST NUMBER ISSUE DATE PRINT DATE ORDER NUMBER

SAMPLE DESCRIPTION Clients Ref: Tufted loop Colour: Lime

Approximate ;

Material Specification:

Nominal pile composition: 100% Solution Dyed Nylon 6.6

Nominal total pile mass: 475g/m2 Nominal backing: Glasbac backing

ASISO 9239,1-2003 Reaction to Fire Tests for Floorings Part 1

Determination of the Burning Behaviour

using a Radiant Heat Source

Date of sample arrival: 13/03/2013

Date tested: 05/04/2013

Results: CHF (Critical Heat Flux / Critical Radiant Flux)

Mean

kW/m2 8.0 Length 8.3 Width kW/m2

Smoke Value

Length & min Width

Observations: Melting

Blistering

Note: Sample was conditioned in accordance with BSEN 13238-2001 at a temperature of 23+/-2degC and Relative Humidity of 50+/-5% for a minimum of 48 hours prior to testing

Each specimen was adhered to a substrate of 6mm thick fibre reinforced cement board using Roberts Acrylic 656 adhesive and clamped prior to testing

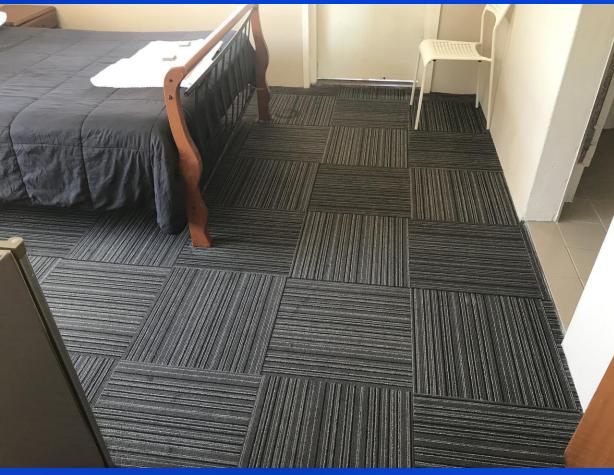
The test results relate to the penaviour or the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use











If you look closely enough & study the test reports, you will find many construction products and materials do not comply with national standards

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ek SAI Global" NZ Accreditation No. Z1440295AS		CONTROL Man de la contraction		
SUBJECT TO THE FO	OLLOWING LIMITATIONS AND CO	ONDITIONS AND THE PRODUCT TECH APPENDIX B	NICAL DATA IN APPENDIX A AN	
Limitations and conditio	ins:		Building clas	
Installation sha dated October	all be in accordance with the Tec	hnical Brochure -	Volume 1 – 0	
	Class 9 buildings,	cladding system is suit	able for only Volume 2 – 0	
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	Type B construction, sarking-ty	pe materials must comply with clause	C2D10(6)(f) of	
		isulation must be non-combustible.		

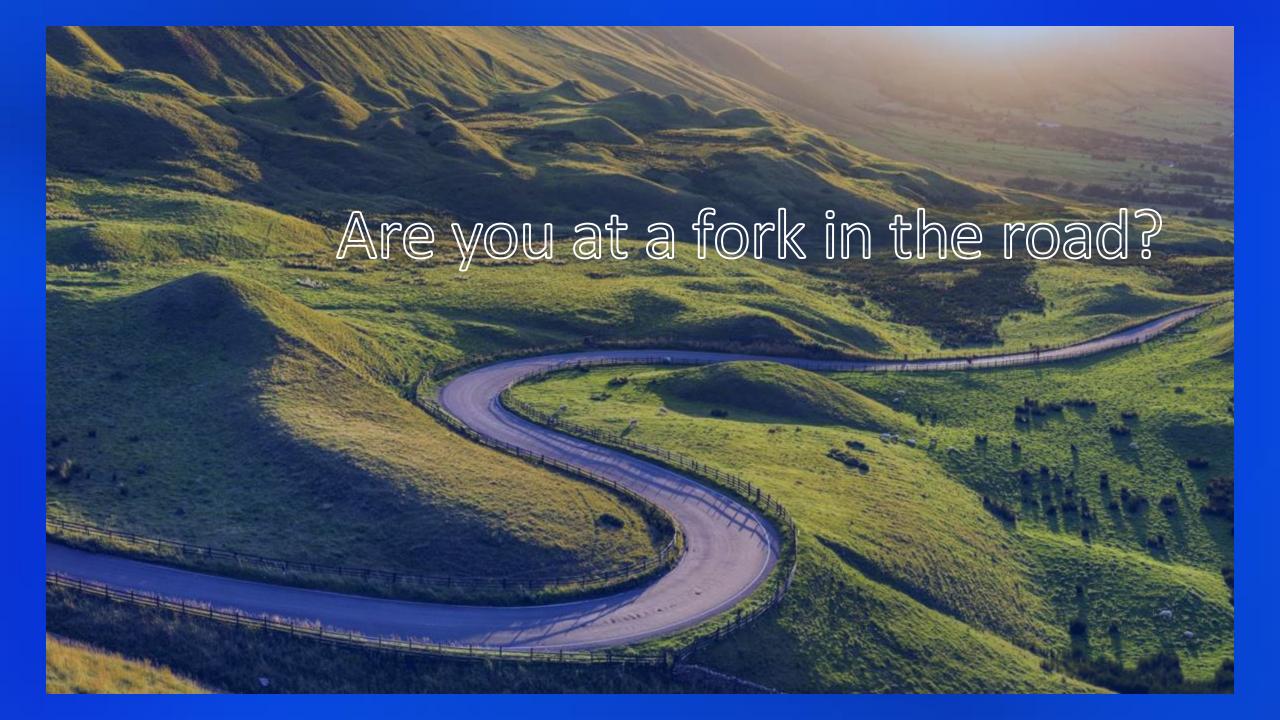
# What do we need to do? Approvals and compliance

You can have a great overall design, but the devil is in the detail.

Design without integration can lead to this







Question 2 Did you get Authority approval and was the compliance schedule right?



#### Not getting approval?

Blaming the
Territory
Authority for
your projects?



#### Not getting compliance schedules right?



2. Smoke Detec Systems	Detection and Alarm Systems, C3.5, C3.6, C3.7, C3.8, C3.11, D2.21, G4.8, Spec C3.4, Spec	AS 1670.1 - 2004





#### Question 3

Have all construction inspections been satisfied before progressing?



Inspections - More than the minimum

This short promotional video is of a resort I certified in Australia.

The legislated minimum number of inspections required for this resort was 10

How many did I do? There will be a prize for the correct answer!



#### What do we need to do?

You need control over each project.

How are you picking up issues and changes during construction?

You need to develop minimum standards for the number and type of inspections you do.

Take photos of everything. I take at least 50 photos per inspection

If you are saying you do not have time, put your prices up. You need resources to do your job properly.



Question 4 Was all commissioning done at the final inspection?



#### What do we need to do?

Commissioning and final inspection



Are you just collecting certificates hoping everything will be okay?

Are you performing a full system witness test? If not, why not? Are you reading the certificates, ensuring they comply and are ground truthing them?

Do you wait for the inspector to tell you what they want?

Or do you anticipate what they will need and get it done?

Are you calling in experts? I do I am not an engineer or a plumber

Is the building ready to be occupied?







Question 5 Should a Building
Warrant of Fitness
(BWoF) be issued?

#### What do we need to do?

Crunch time!

Have you checked the entire process?



Did you review the developer, builder, design documents, products, materials, compliance schedule, building codes, national standards, documentation and certification at the time of construction, consent authority approvals, inspection results, undiagnosed performance solutions, commissioning tests?

Are you inspecting the building to see if it is constructed as per the approved plan, any changes made, access and egress issues, fire service locations and the big one....

Should a Building Warrant of Fitness (BWoF) be issued? Should the building have been signed off in the first place?

Lack of resources? Put your prices up.

Lack of skills? Stop doing this alone and work under someone competent.



If you are issuing BWoF certificates without doing this investigation, you are not doing your job properly.

If something happens because of your 'oversight' or 'negligence'; you could be held personally liable.



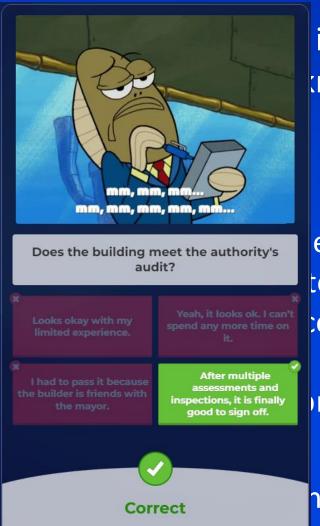




### What do we need to do?

Question 6 Does the building meet the

Engage with the auditor. IQPs and auditing authorities need to work together more



is not acceptable now more than the auditor

ensive checks

ted

:ed

rocess is as important as each part of

nould teach us all

Stop this us and them mentality. You are all here to help the community



# The end of the road

Everyone in this process is crucial to ensuring buildings are safe to occupy Everyone has a moral, ethical, personal, financial and professional responsibility to get this right

Think about your children, your neighbour's children

We have assessed risks, we know what we need to do, let us get out there and do it!

YOU can make a positive difference!

Don't be the one who finds out the worst that can happen!

