Health New Zealand
Compliance
Programme
Passive Fire





The Beginning:

- Post Earthquake works.
- IQP identified passive fire non compliances.
- CDHB /Council agreement on remediation timeline 5 Years in 2013.
- Initials Budget of \$100,000.
- I Joined CDHB in 2015



We all know how they work don't we?

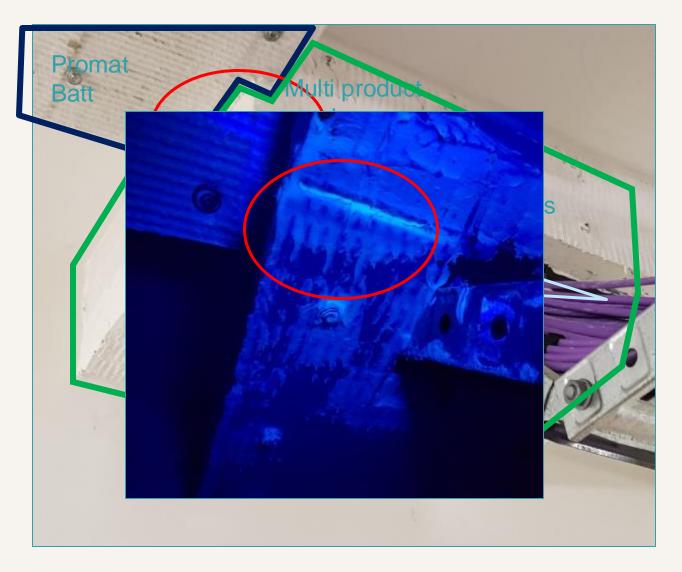


Solutions?

This install has:

- PS 1 Design
- PS 2 Peer Review
- PS 3 Installer confirmation
- PS 4 Engineers Approval
- CoC BCA Approval
- BWOF Current

Looks compliant to me:



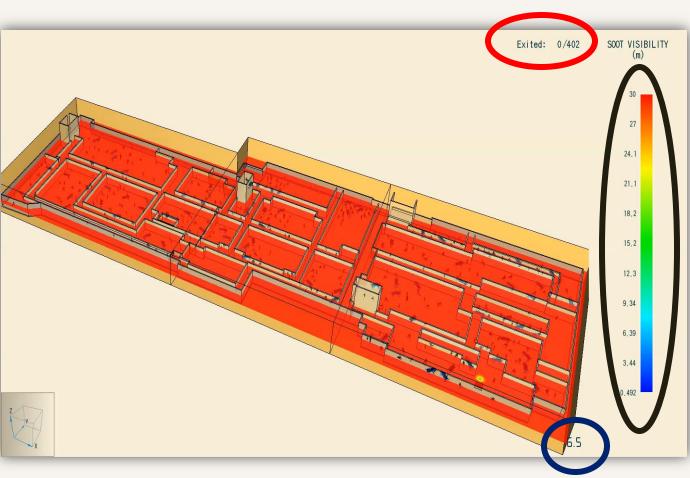


Step 1- Searching for answers:

- Identified over 50,000 defects.
- Estimated Budget forecast \$200 m.
- Estimated Programme 10 Years.
- We didn't look at Mechanical / HVAC.
- We "Believed" Fire Doors were <u>OK.</u>
- We established the industry was like the "Wild West".

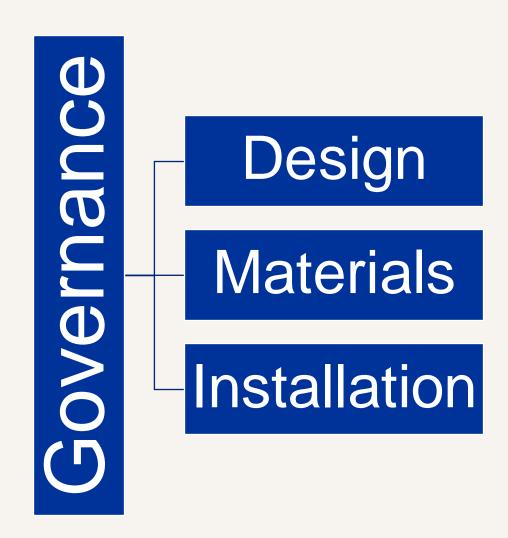
3 Step Programme:

Step 2 – Funding:





Step 3 – Establish the basics:





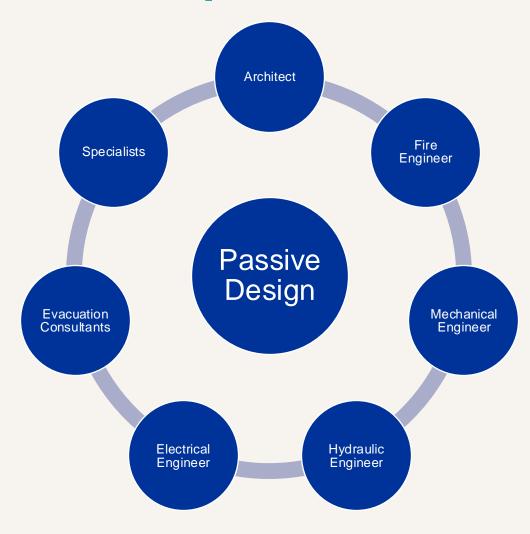
The backbone:

Develop a Design Guide Write a
New
Policy

Define the Process



Who's responsible?





Control the Flow:

| | | | | | | | | | | | | | | Pas | sive Fire N | /late | rial Matrix | x | | |
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| Planter Cable UV Bundle | Mono mankande pa | New install solution | CIANO PEPETRE, CIANO PEO DINE | Reddado RM installed both sides with armole gap armond saldes | Facility (ST | 30 | FreMada RM insulationsh sites with annular payament solder | Toolkepte 19 | | 30 | Findfadio RPI installe all histories with annular gay and includes | Fielderic or | 30 | ReMark KM resuled both cite. with armilar pay around cubbs. | Final city and | 30 | ReditatioNPC installed both sides, with armolar gap around saldes. | Today or | 20 | |
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Install Time



Training with the Manufacturer:









Installation: part 2

Accreditation Scheme:



Training

- Off Site
- Zero Risk
- No Cost



Level 1

- Small works
- 100% monitored



Level 2

- Mid range Projects
- Reduced Monitoring



Level 3

- Complex or High Value Projects
- Variable Monitoring



Installation and QA:

- All stake holders agreed that QA and Records within the industry were non-existent.
- All agreed we needed a system that covered cradle to grave.
- Extensive review of systems available around the world, we found:

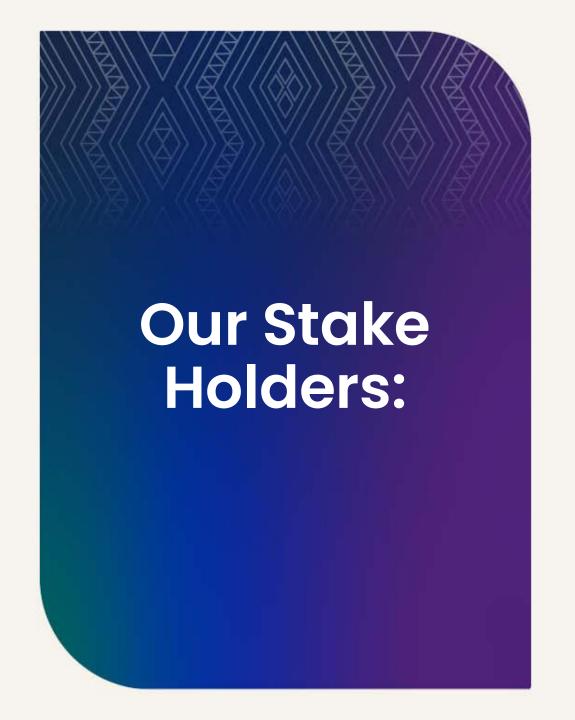


More on this later.



Process:

- Stake Holders.
 - Who we are accountable to.
- Approach and Engineering.
 - NFPA 101A,
 - Quality Assurance,
 - Compliance,
- Planning and Programming.
 - Plan of Attack,
 - Easy Wins,
 - Co-ordination,



Health New Zealand Te Whatu Ora



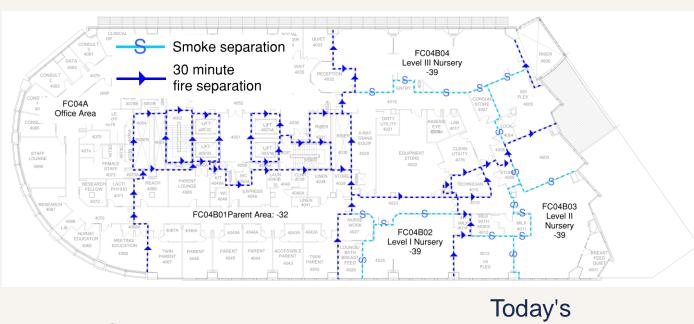




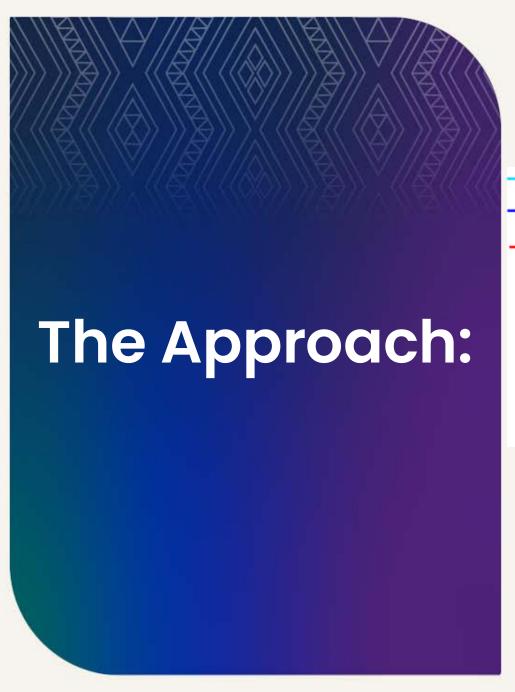




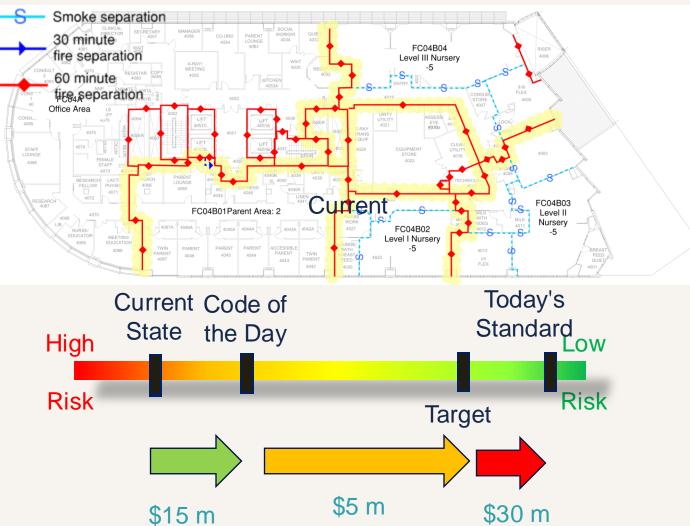
NFPA 101A Risk Based Engineering:







NFPA 101A: The balancing act





New to New Zealand:

- Refined NFPA 101A to meet NZ Building Code.
- Universal Design Guide covering every option.
- Complete extensive Peer Reviews of Engineering and Design with equal input from all.
- Consent application based on Theory only.

Where to Start:

- Parkside Blocks A and B
- Parkside Blocks C and D
- Christchurch Women's
- Oncology and Food Services
- Clinical services Building
- Riverside

Planning:



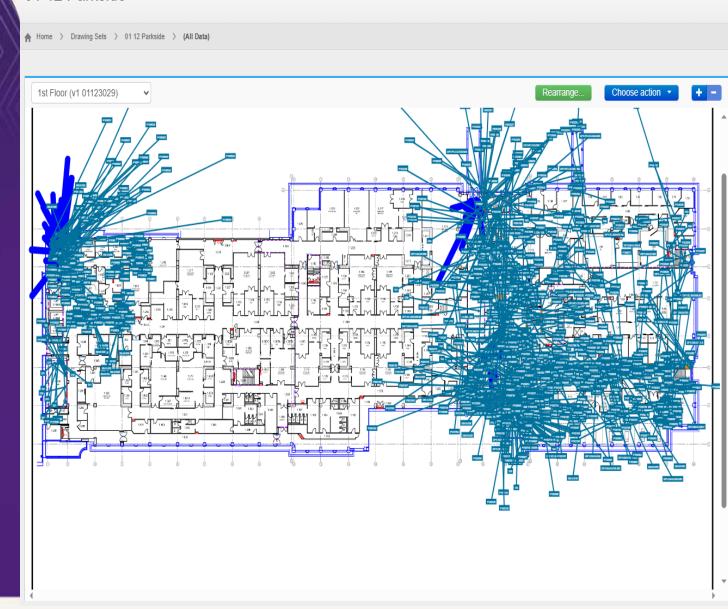
Easy Wins:

- Covid Response Wards CoA
- Opening of Waipapa and relocation of Wards and ED
- Green light Parkside Building
- Parkside Medical Progressive Care Ward

Technology: Quality Assurance

Software:

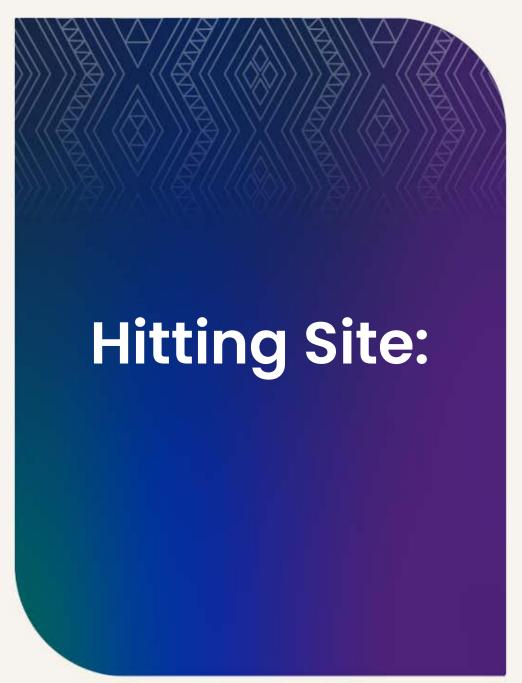
01 12 Parkside





Pushing the boundaries of the industry:





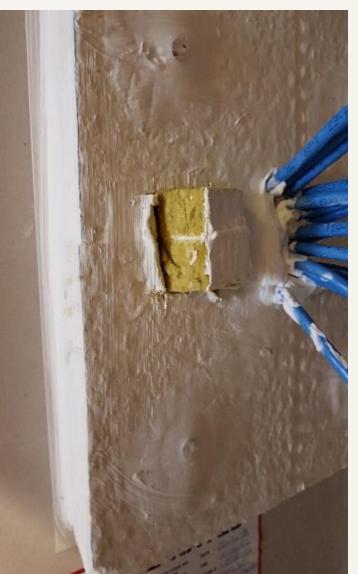
The Fun and Hard Stuff:

- Co-operation with Clinical and access.
- Mechanical Mayhem.
- Dilapidation.
- Doors, Doors, Doors.





We are an Open Book:



Visual and Destructive Testing:

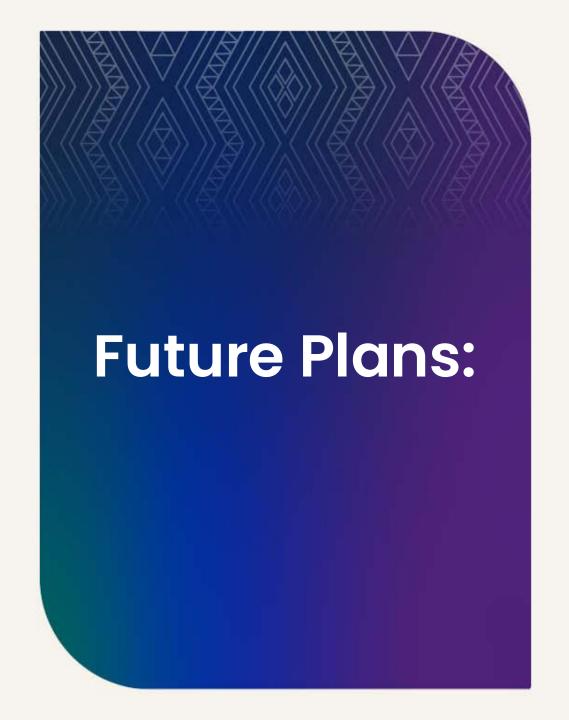
Access to the system and training for All:

- Fire Engineer
- CM Engineers
- Project Manager
- Quantity Surveyor
- BCA Inspectors
- Main Contractors
- Directors
- H&S



Achieving the Impossible:

- Achieved 2 Certificates of Acceptance under Covid.
- Established a NEW fully compliant Fire Door supply and Install route and installed over 150 doors to date.
- CoC for Parkside Stage 1 Due in September 2024.
- Completed over 30,000 Penetrations.
- Sprayed over 20,000 litres of FBL 100.
- Remediated over 15,000 msq of fire walls and 6000 msq of slab.



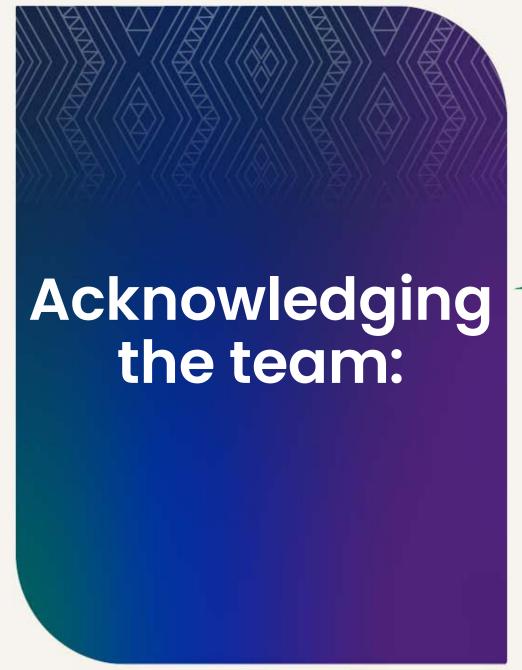
What's left to do:

- Develop our guidance document to be the Standard for all Hospitals.
- Remain in Budget?
- Refine Skills and continue to develop new techniques and solution.
- Continue to change the industry for a safer New Zealand.



Providing for the Future:

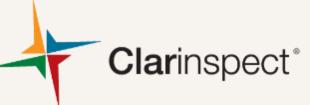
- Detailed "As Built" Information.
- Accurate Materials records.
- Year on Year photographic history.
- Trackable updates and capacity information.
- Targeted Inspection programme for IQP.
- Certainty of BWOF and Compliance for Passive Fire and Doors.



One Big Team:













Restruct Commercial Doors Ltd YOUR FIRE DOOR SPECIALISTS







