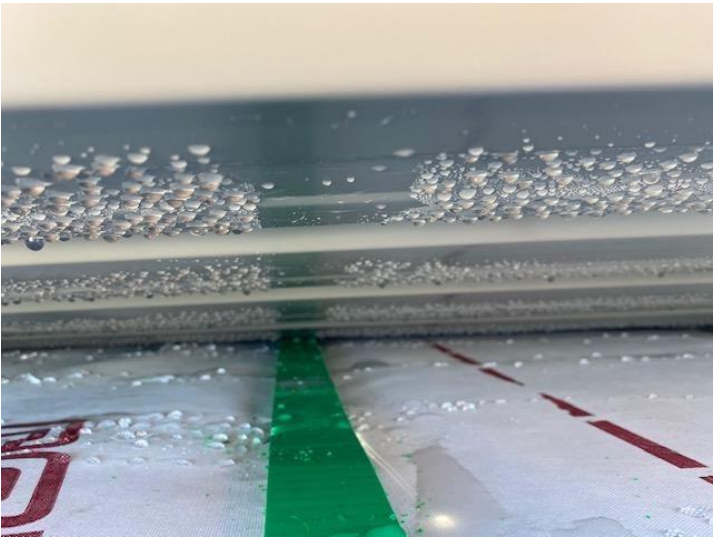
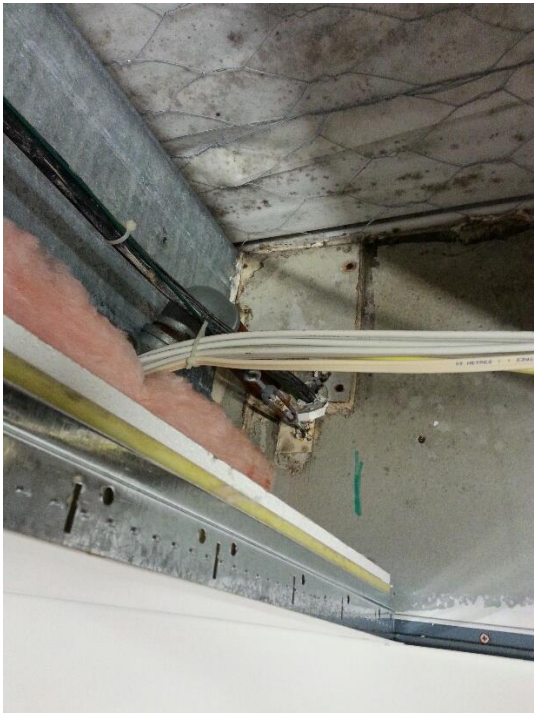
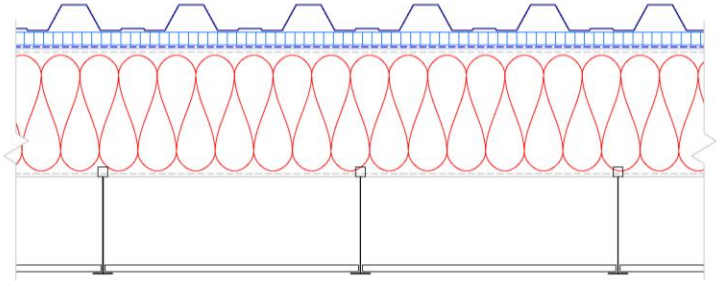
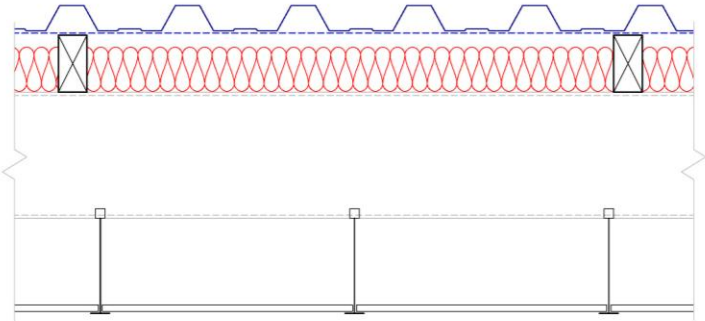
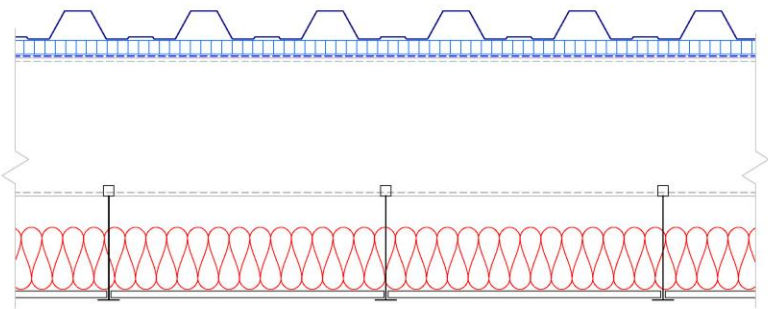


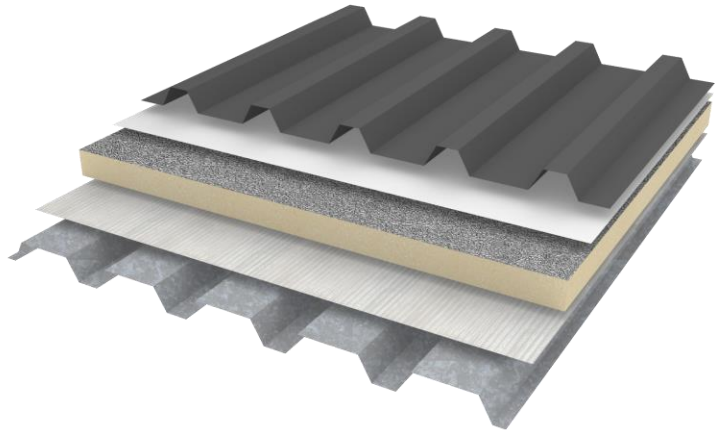


**ROOFLOGIC**  
INTELLIGENT ROOFING SOLUTIONS

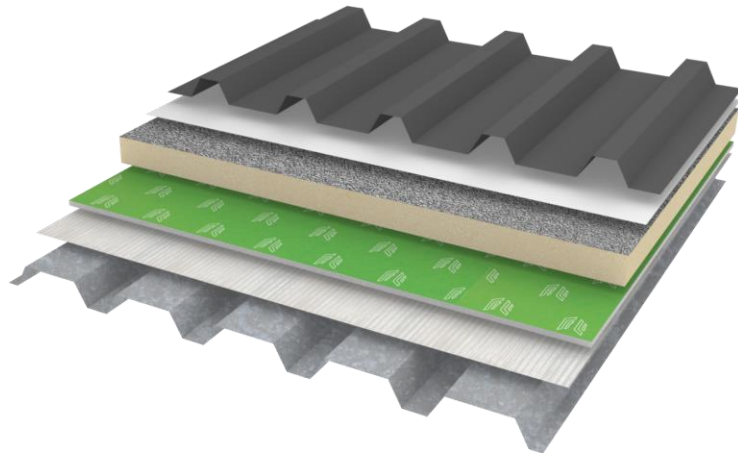
NZWIR Presentation  
2023

# TRADITIONAL ROOF ASSEMBLIES





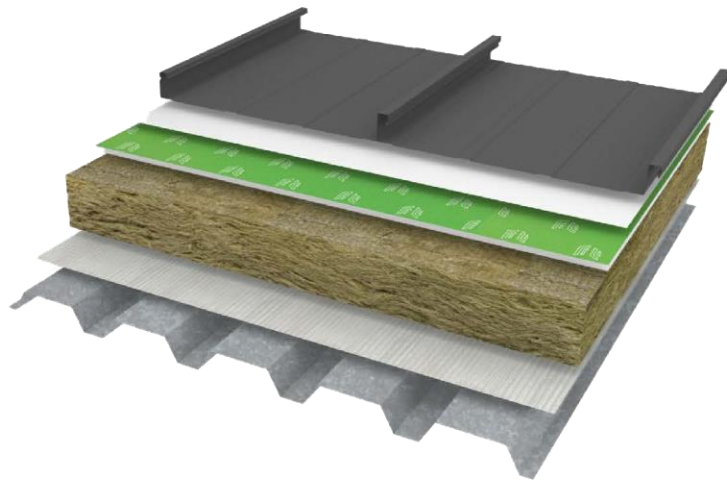
RL ULTATHERM MSR SYSTEM  
WITH PIR BOARD



RL ULTRATHERM MSR SYSTEM  
WITH ACOUSTIC BOARD



RL ULTATHERM MSR SYSTEM  
WITH STONEWOOL

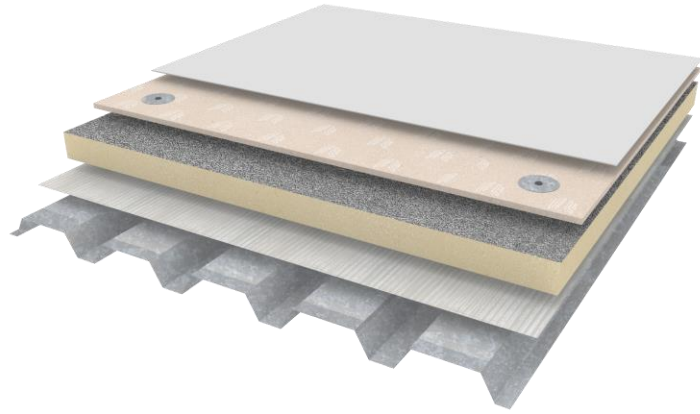


RL ULTATHERM MSR SYSTEM  
WITH STONEWOOL

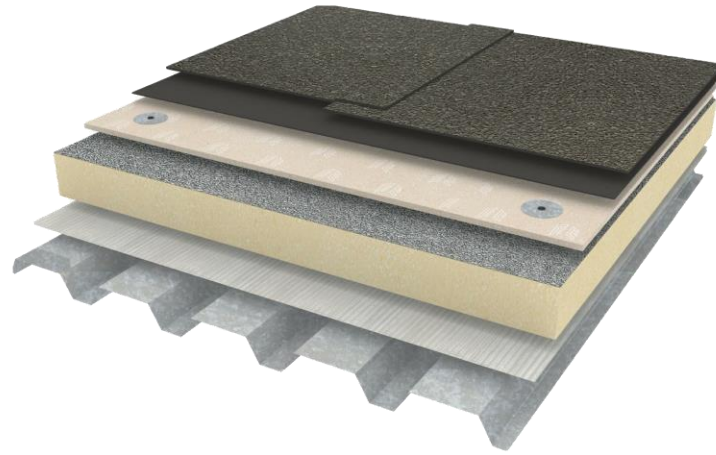


RL FIBERTHERM MSR SYSTEM

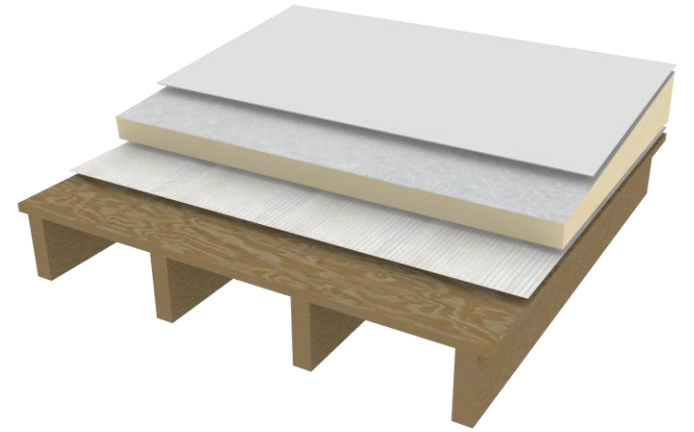




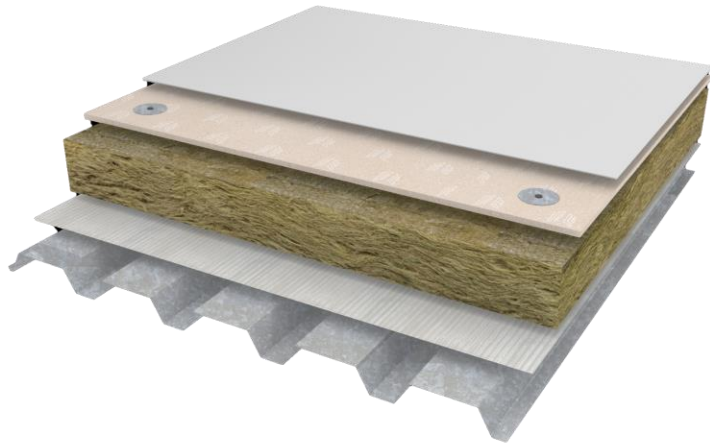
RL ULTRATHERM XTREME WITH  
FIBERTITE MEMBRANE



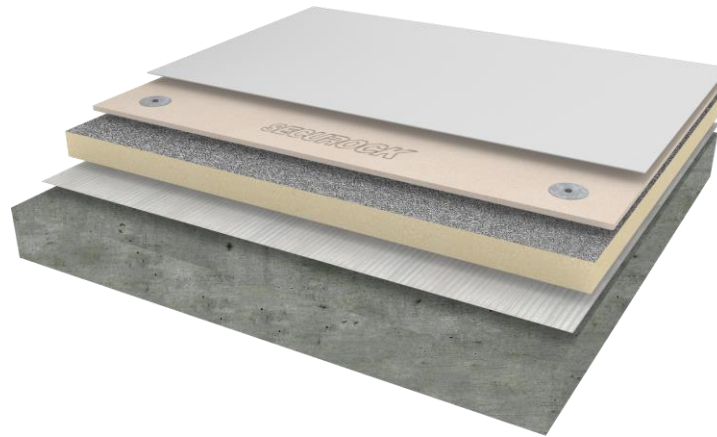
RL ULTRATHERM XTREME WITH  
DERBIGUM TORCH ON MEMBRANE



RL ULTRATHERM WITH RL TAPERED  
PIR BOARD



RL ULTRATHERM XTREME WITH  
RL STONEWOOL

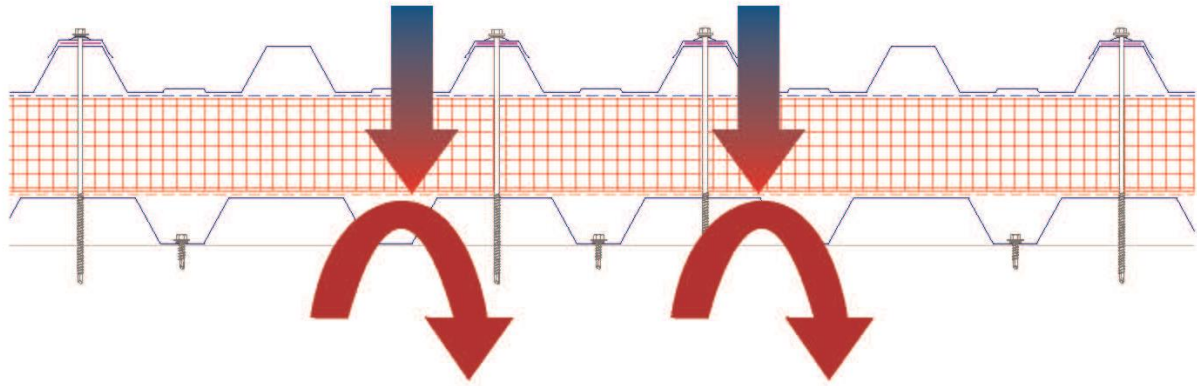


RL ULTRATHERM XTREME WITH  
FIBERTITE MEMBRANE

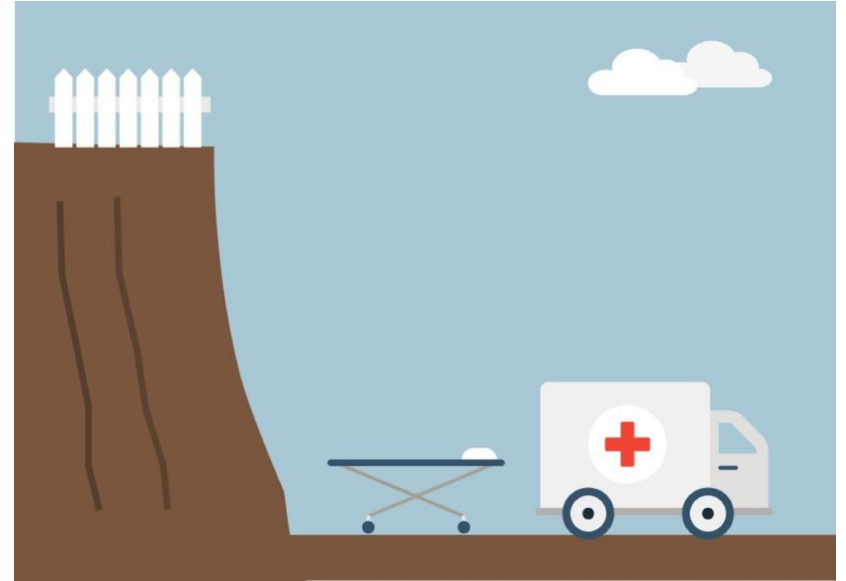


RL ULTRATHERM XTREME WITH  
DERBIGUM TORCH ON MEMBRANE

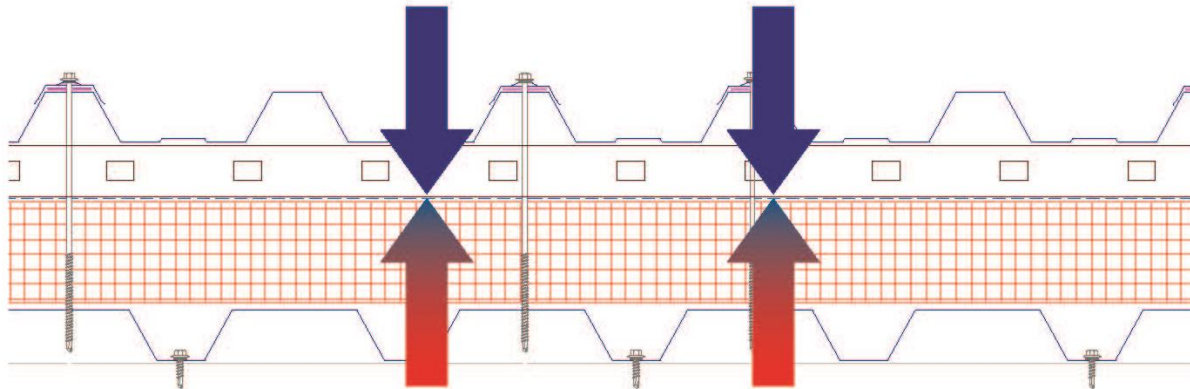
# SEPARATE AND ELIMINATE



=



# COLLIDE AND HOPE



=





# VAPOUR CONTROL-SEPARATE AND ELIMINATE IN ACTION



RL ULTRATHERM MSR SYSTEM

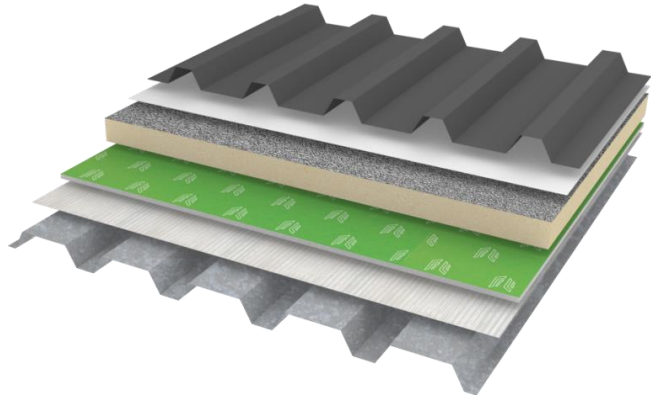


RL FIBERTHERM MSR SYSTEM

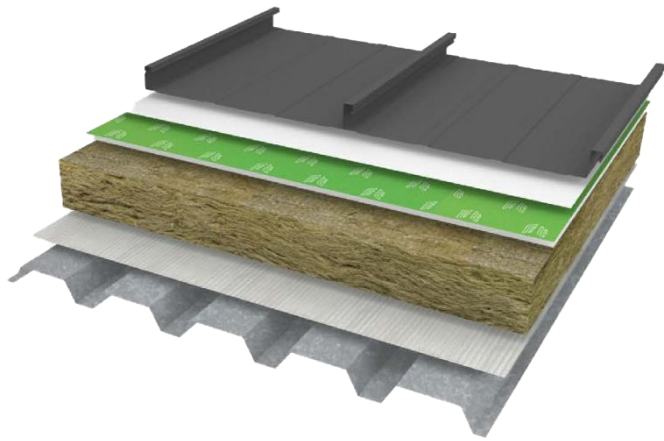




# Ultratherm MSR Systems



RL ULTRATHERM MSR SYSTEM  
WITH RL ACOUSTIC BOARD



RL ULTATHERM MSR SYSTEM  
WITH RL STONEWOOL



TE PAE-CHRISTCHURCH CONVENTION CENTRE



AOTEA COLLEGE-WELLINGTON

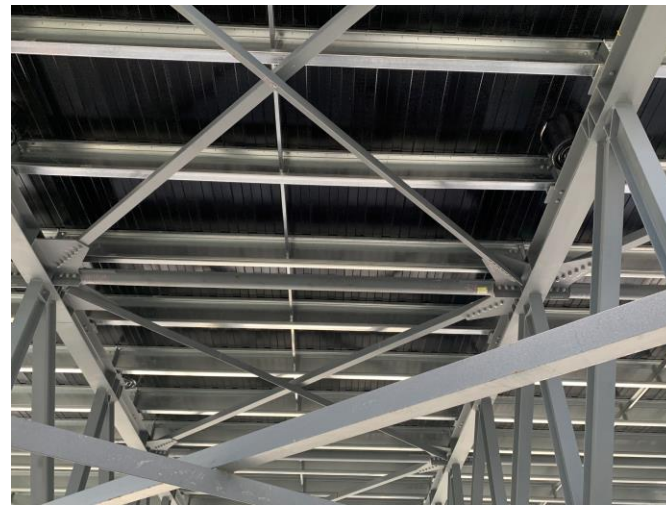


SHIRLEY BOYS AVONSIDE GIRLS-CHRISTCHURCH



WESTERN SPRINGS COLLEGE-AUCKLAND







# Fibertherm MSR Systems



RL FIBERTHERM MSR SYSTEM



NZ POST-WELLINGTON



MANUKAU INSTITUTE OF TECHNOLOGY-AUCKLAND



RL FIBERTHERM MSR SYSTEM



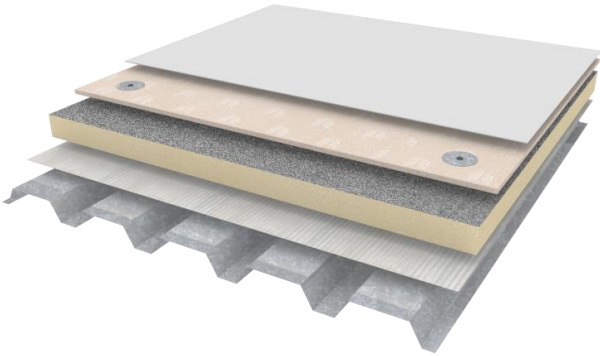
KMART-CHRISTCHURCH



COUNTIES POWER OFFICES-AUCKLAND



# Ultratherm Xtreme Systems



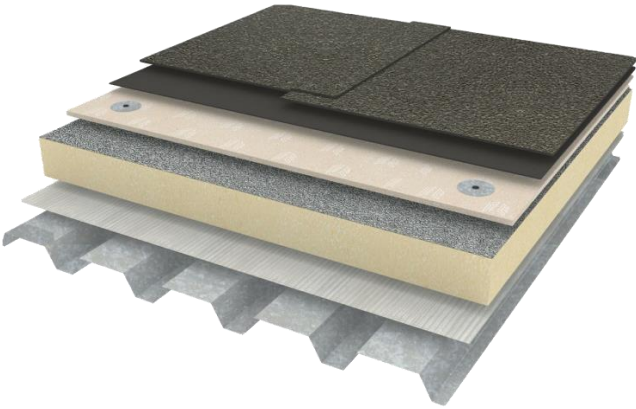
RL ULTRATHERM XTREME WITH FIBERTITE MEMBRANE



NELSON AIRPORT



E2, WYNYARD CENTRAL-AUCKLAND



RL ULTRATHERM XTREME WITH DERBIGUM TORCH ON MEMBRANE



ST ANDREWS CHAPEL-CHRISTCHURCH



30 MADDEN APARTMENTS-AUCKLAND

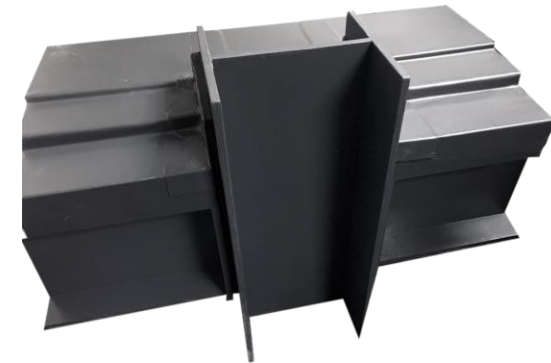




NELSON AIRPORT-STUDIO PACIFIC ARCHITECTS, ULTRATHERM XTREME WITH FIBERTITE MEMBRANE





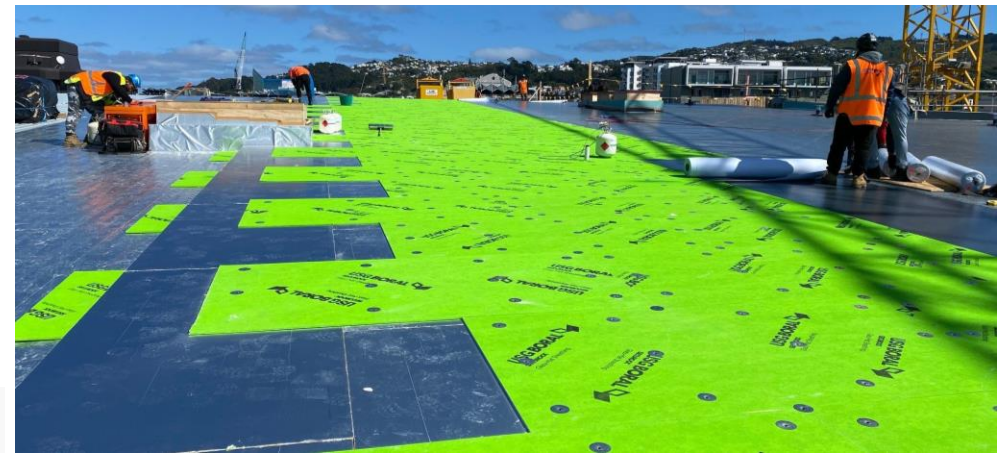


PARK HYATT HOTEL-BOSSLEY ARCHITECTS





TAKINA-WELLINGTON CONVENTION CENTRE







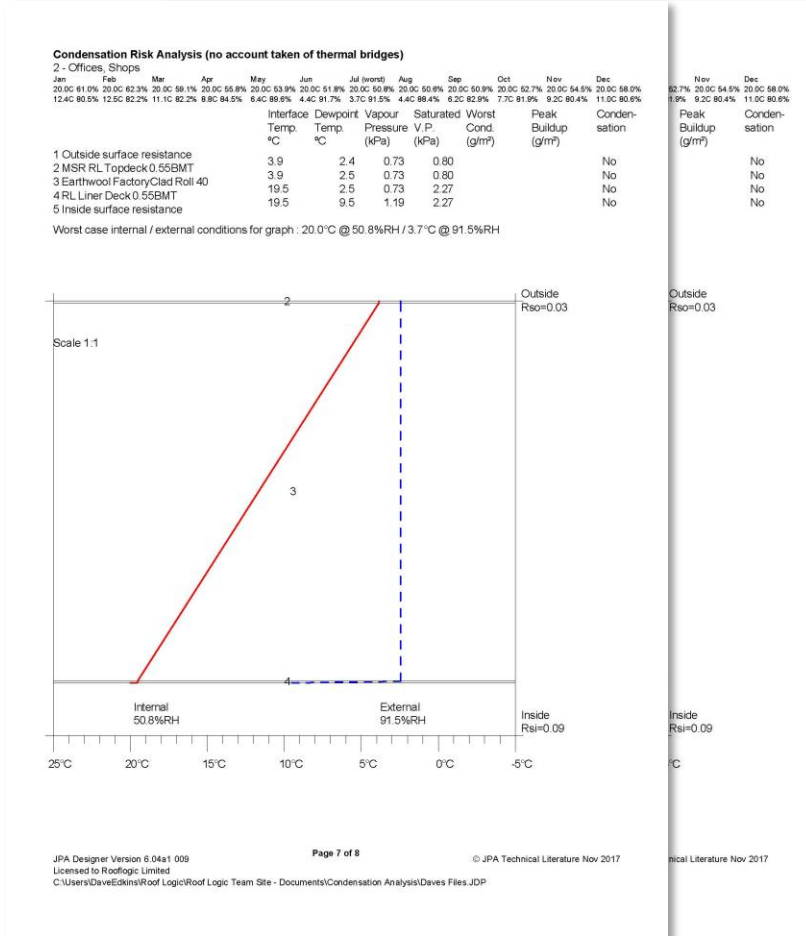
ST ANDREWS CHAPEL-ULTRATHERM XTREME WITH DERBIGUM MEMBRANE



**SYSTEMS NOT PRODUCTS**



# HYGROTHERMAL AND THERMAL ANALYSIS



Gc = Monthly moisture accumulation per area at an interface  
 Ma = Accumulated moisture content per area at an interface

Peak accumulated moisture content per area at interface (Ma) = 0.00000 Kg/m²

Annual moisture accumulation = 0.00000 Kg/m²

# STRUCTURAL DESIGN

**RL Board Fixing Layout**

Project : Park Hyatt, Auckland

**Level Roof & Service Core Roof**

15 Fixings

71mm	89mm			
50MPa	700MPa	230MPa	550MP	700MPa
10kN	3.58kN	2.7kN	3.8kN	4.3kN

Prepared By: D. Edkins CEng, NZ, CPEng, IMFEE Building Envelope Principal Engineer  
 January 2018  
 Revision: 1.1  
 Reviewed: G. Townsend BA, LLB Director

Annual moisture accumulation = 0.00000 Kg/m²



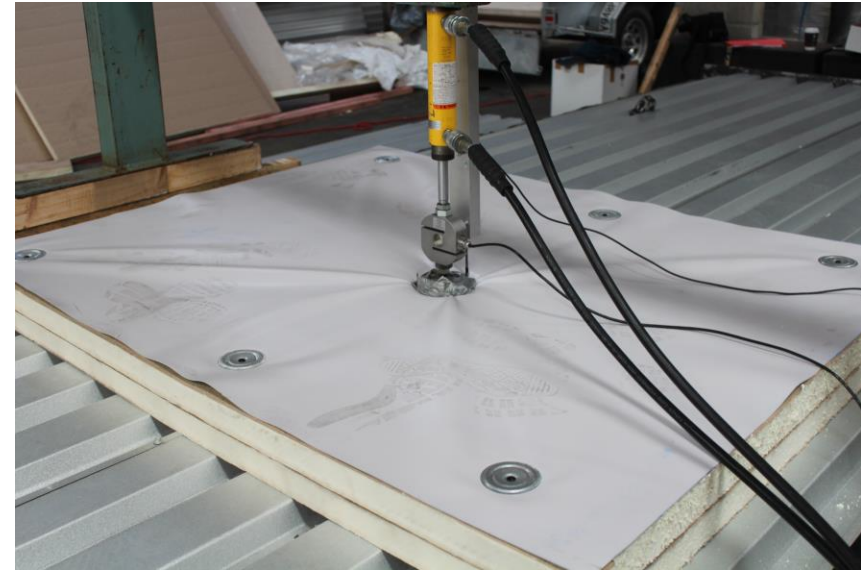
## ON-SITE TESTING



## WIND UPLIFT CHAMBER



## STRUCTURAL TESTING



## FIRE PERFORMANCE

**FI 5788C ISSUE 2**  
**GROUP CLASSIFICATION NUMBER**

This is to certify that the specimen described below was tested by BRANZ for determination of Group Number (Class Rating) and BRANZ is in accordance with AS 1539.1:2010 and Group Number Classification and Smoke Production Rate in accordance with ISO 9705:2003.

<b>Test Specimen</b>	<b>Date of test</b>
Building Level: 30 30 Haywards Street Ponsonby Lower Floor 3012	17 September 2015 Reference BRANZ Test Report FI 5788 Issue 2 - Issue 2 October 2020

**Test Specimen as described by the client:**  
The product submitted for the above testing was identified by the client as Polyglaze FR Board tested against BRANZ. The product was supplied with a sample of Polyglaze FR Board with a total surface area of 30 m<sup>2</sup> and 14 kg/m<sup>2</sup> weight. The specimen on the adjacent left supported profile structure tested best in testing.

**Group Number Classification in accordance with the New Zealand Building Code:**  
Calculations were carried out according to NZBC Verification Method C1/M2 Appendix A. The classification for the sample as described above is given in the table below.

Building Code Document	Group Number Classification
NZBC Volume One Specification C1-15/Class A Approved in accordance with AS 1539.1:2010 Minimum non-combustible surface area 30 m <sup>2</sup>	1
NZBC Verification Method C1/M2 Appendix A	Average Smoke Production Rate less 0.7 m <sup>3</sup> /h and Operations when the fire is hot

Issued by: S. Henshaw, Senior Testing Engineer, BRANZ  
Reviewed by: S. Cole, Senior Test Engineer, BRANZ Approval Signatory  
Issue Date: 9 October 2015  
Expiry Date: 8 October 2021

Modelling software, not subject to approval, has assisted in assessing test results. Where necessary, test results were reviewed by a professional engineer.

BRANZ  
BSC-BSA  
IANZ

All test and approval material performed in accordance with the International Code of Building Regulations.

