

Insulated Panels
Australia

KINGSPAN DATA CENTRE SOLUTIONS

Where Speed
Meets Timeless
Performance



KINGSPAN DATA CENTRE SOLUTIONS

KINGSPAN PROVIDES DATA CENTRE CONSTRUCTION SOLUTIONS WITH ITS WELL-ESTABLISHED PRODUCT PORTFOLIO OF ROOF, CEILING AND WALL CLADDING SYSTEMS.

ROOF PANELS
K-Roc™ Roofliner
and JI Vulcasteel

FAÇADES
K-Roc™ Karrier range
and façade products

EXTERNAL WALL PANELS
K-Roc™ Evolution/
AWP ranges

INTERNAL WALL AND CEILING PANELS
K-Roc™ Firemaster range

WHY ARE KINGSPAN PANELS IDEAL FOR DATA CENTRE SOLUTIONS?



LOCALLY MADE IN ST MARYS, SYDNEY

Locally manufactured for **maximum efficiency**, the K-Roc™ range has **shorter lead times** compared to imported products. The K-Roc™ range enables rapid installation, reduces programme risk and gives design teams greater freedom to optimise service layouts.



PROVEN FIRE PROTECTION

All K-Roc™ products are engineered with a non-combustible mineral wool core and undergo **rigorous testing** to achieve the necessary fire test results to satisfy the National Construction Code.

Specifically, the K-Roc™ Ultima range offers fire resistance capabilities for its wall products, **delivering up to a 4-hour Fire Resistance Level (FRL)***. Designed to contain heat and prevent flame spread, they safeguard critical infrastructure and help maintain uptime.



DESIGN CAPABILITIES

Delivering exceptional performance in a lightweight package. Ideal for modern data centre construction, the **K-Roc™ range significantly reduces structural loads and foundation demands**, streamlining transportation and installation. This means faster builds, lower costs, and greater design flexibility, making **K-Roc™ the smart choice** for tomorrow's data centres.



SCALABILITY – MODULAR DESIGN

In the fast-paced world of data infrastructure – **speed, precision and flexibility are everything**. The K-Roc™ range offers a modular, prefabricated solution that scales effortlessly whether you're delivering a new build or expanding an existing data centre.



SUSTAINABILITY – THERMAL EFFICIENCY

Kingspan Insulated Panels deliver **exceptional thermal performance**, helping data centres maintain precise temperature and humidity control, **reducing strain on CRAC/CRAH systems**. This results in lower energy consumption, improved operational efficiency, and reduced carbon emissions.

*The fire resistance rating is dependent on the product selected, panel thickness, panel orientation, direction of fire exposure and the maximum distance between supports.

INTERNAL WALL SOLUTIONS K-ROC™ FIREMASTER RANGE



**LOCALLY MADE IN
ST MARYS, SYDNEY**



**THE ULTIMA RANGE
ACHIEVES FRL'S UP
TO 3HRS***



**NON-COMBUSTIBLE
MINERAL WOOL CORE**



**EXTENSIVE TESTING
WITH SERVICE
PENETRATIONS**



**MODULAR BUILD
INCREASING THE SPEED
OF CONSTRUCTION**



**FLEXIBILITY AND
AESTHETICS**



**ACHIEVES UP TO
FRL -/240/180
FIRE-RESISTANCE LEVEL
TESTED TO AS 1530.4 2014**

Designed with data centres in mind, the K-Roc™ Firemaster range plays a critical role in isolating high risk areas as part of a robust fire safety strategy.

INTEGRATED FIRE DOORS – TESTED WITH E-CORE

Maximum 2 hrs

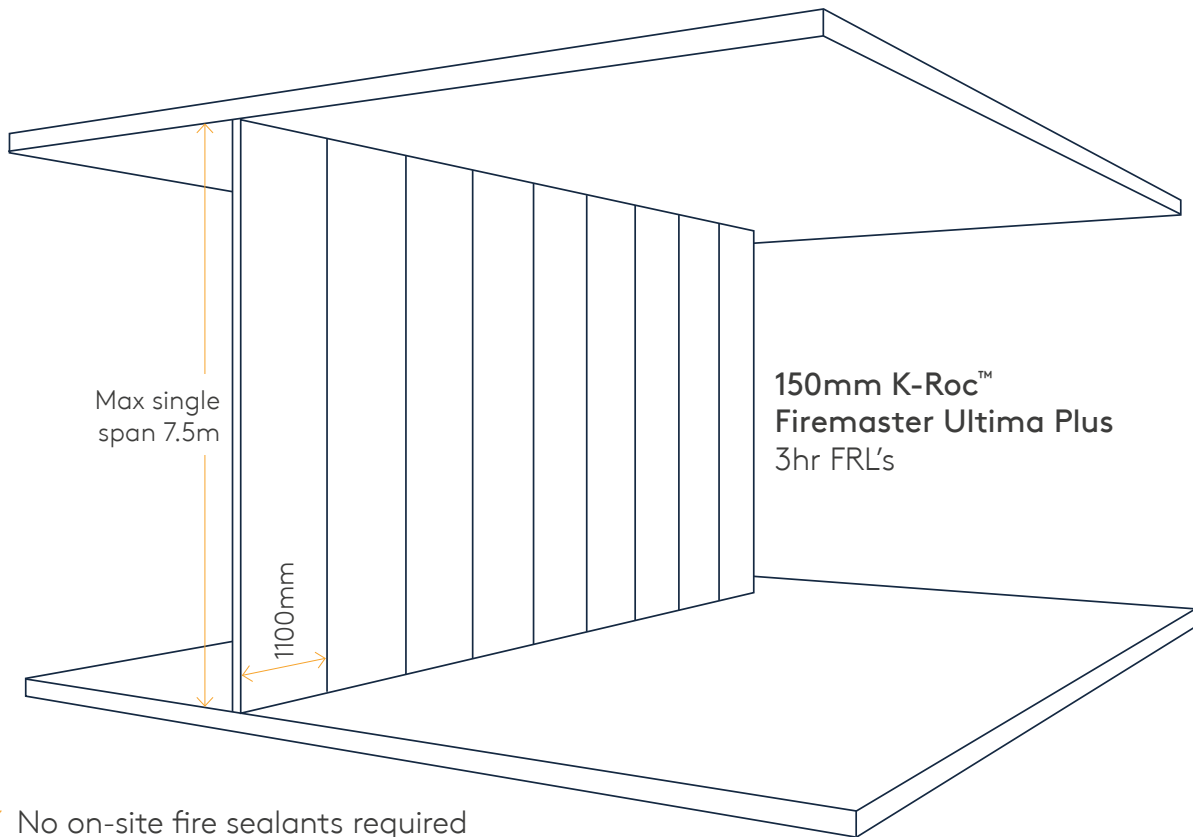
Single door max 3000mm(h) x 1500mm (w)

Double door max 3000mm(h) x 3000mm (w)

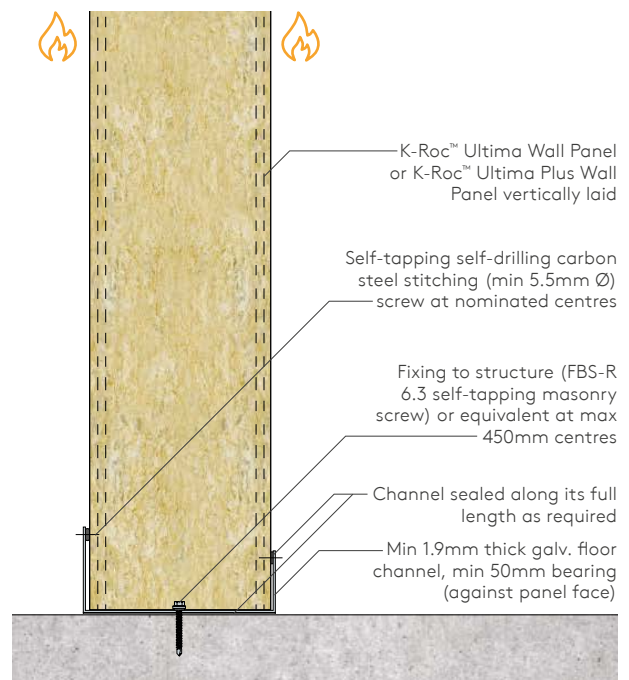
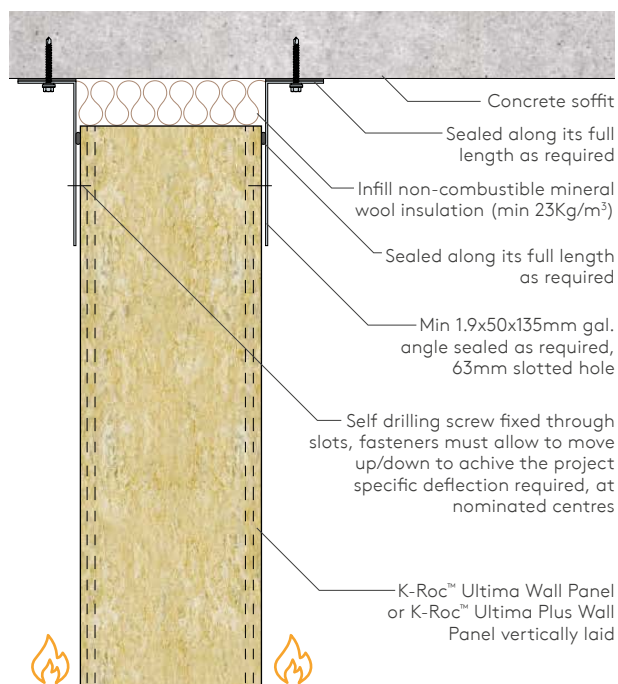


Kingspan partners with
FIREFLY for tested through
wall solutions.

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- ✓ No on-site fire sealants required
- ✓ No stitching of panels joints
- ✓ No FC sheet in panel joints

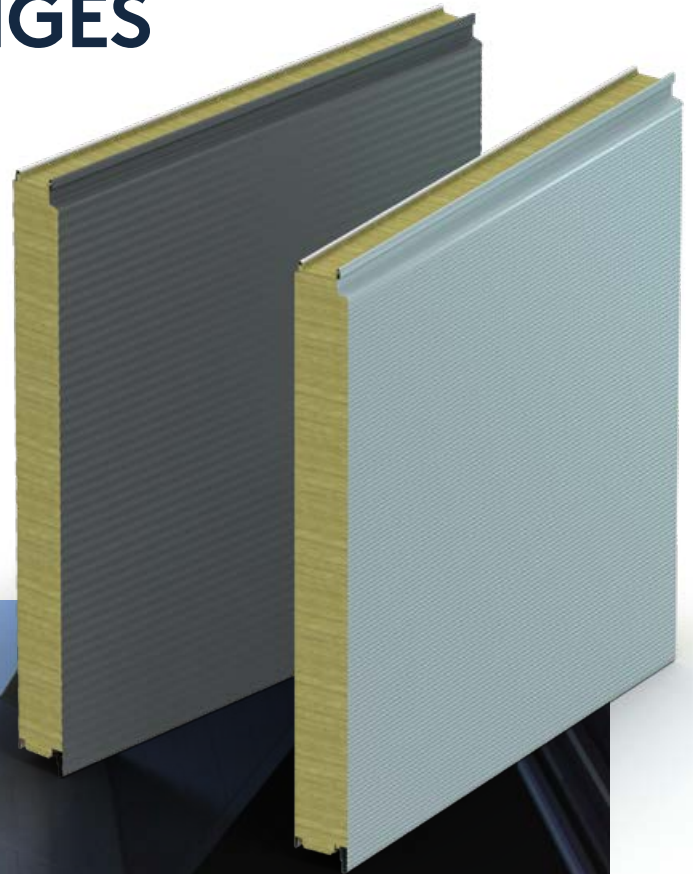


For detailed guidance and performance data, please download the individual product data sheets or contact our technical team directly by scanning the QR codes on the back page.

EXTERNAL WALL SOLUTIONS K-ROC™ AWP AND EVOLUTION RANGES



K-Roc™ External Wall Panels are engineered specifically for the demanding requirements of modern data centres. Featuring a **non-combustible mineral wool core**, these panels provide a **lightweight, modular building system** that accelerates construction timelines without compromising on safety or performance.





LOCALLY MADE IN ST MARYS, SYDNEY



**THE ULTIMA PLUS RANGE ACHIEVES
FRL'S UP TO 4 HOURS***



NON-COMBUSTIBLE MINERAL WOOL CORE



ACOUSTIC AND THERMAL PERFORMANCE



WEATHERTIGHTNESS AND AIRTIGHTNESS OPTIMISED



AESTHETIC AND LIGHTWEIGHT – WITH LARGE SPANS

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ROOF SOLUTION K-ROC™ ROOFLINER PANEL



**LOCALLY MADE IN
ST MARYS, SYDNEY**



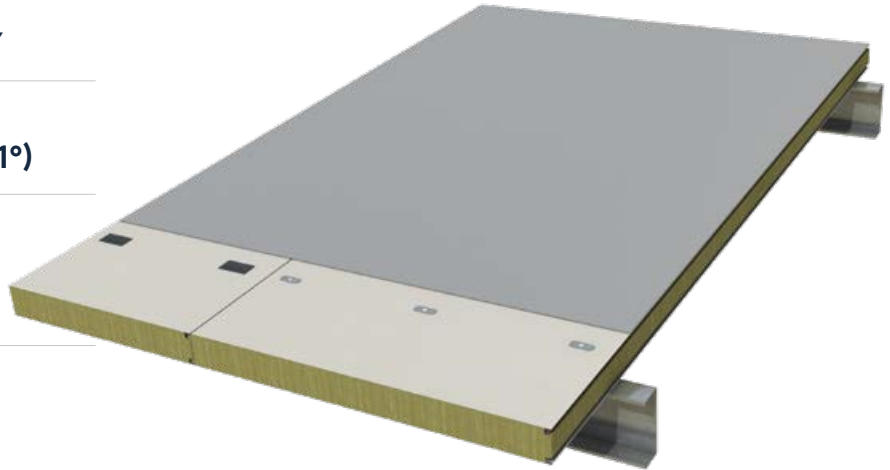
**IDEAL FOR LOW
PITCHED ROOFS ($\geq 1^\circ$)**



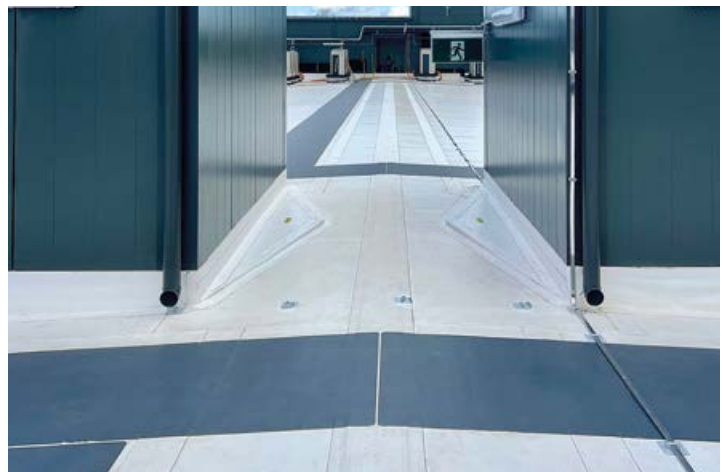
**THROUGH-FIX
JOINT DETAIL FOR
EASE OF INSTALL**



**ROBUST COATING
AND LININGS**



Manufactured with a non-combustible core with a through-fix joint detail. K-Roc™ Roofliner is designed to be used as a substrate for site applied single ply membrane systems.



For detailed guidance and performance data, please download the individual product data sheets or contact our technical team directly by scanning the QR codes on the back page.

ROOF SOLUTION JI VULCASTEEL ROOF PANEL



**NON-COMBUSTIBLE
MINERAL WOOL CORE**



TRAPEZOIDAL PROFILE



**THROUGH-FIX
JOINT DETAIL FOR
EASE OF INSTALL**



**APPLICATION: PITCHED
ROOF OF 5° OR MORE
AFTER DEFLECTION**



A trapezoidal roofing solution manufactured with a high-density, non-combustible mineral wool core. It offers excellent acoustic performance along with energy efficient envelopes.



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FAÇADE SOLUTIONS K-ROC™ KARRIER RANGE



**LOCALLY MADE IN
ST MARYS, SYDNEY**



**NON-COMBUSTIBLE
MINERAL WOOL CORE**



**PIVOTAL IN REMOVING
THE INTRICATE FAÇADE
INSTALLATION FROM THE
CRITICAL PATH**



**STREAMLINED CONSTRUCTION
PROCESS LOWERS OVERALL
BUILD COSTS**



**A RANGE OF RAINSCREEN
SYSTEMS CAN BE MOUNTED
DIRECTLY ONTO THE PANEL**



**FOR FIRE RESISTANCE
REQUIREMENTS, K-ROC™
KARRIER ULTIMA AND
ULTIMA PLUS WALL PANELS
SHOULD BE USED.**



**ACHIEVES UP TO
FRL -/240/180
FIRE-RESISTANCE LEVEL
TESTED TO AS 1530.4 2014**

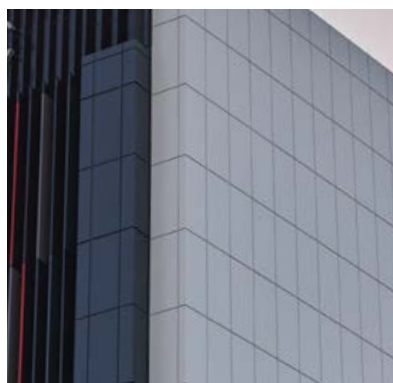
Kingspan K-Roc™ Karrier Panel has been innovatively engineered to deliver the required levels of weather tightness, while simultaneously providing a strong and reliable structural platform for a wide range of bespoke rainscreen systems.

RAINSCREEN FAÇADES



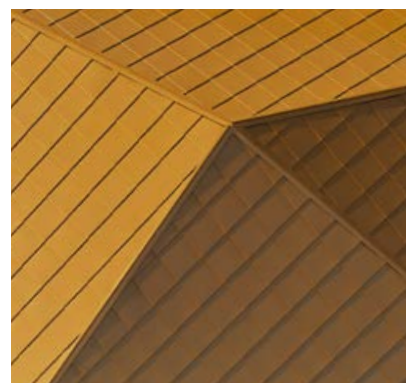
DRI-DESIGN

Metallic rainscreen façade cassette system offering depth and structure.



RECESS FIXED CASSETTE

Value engineered solution which can be directly fixed to the K-Roc™ Karrier Panel.



SHINGLE

Square, rectangular or diamond shaped secret-fix façade system.

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Contact Detail

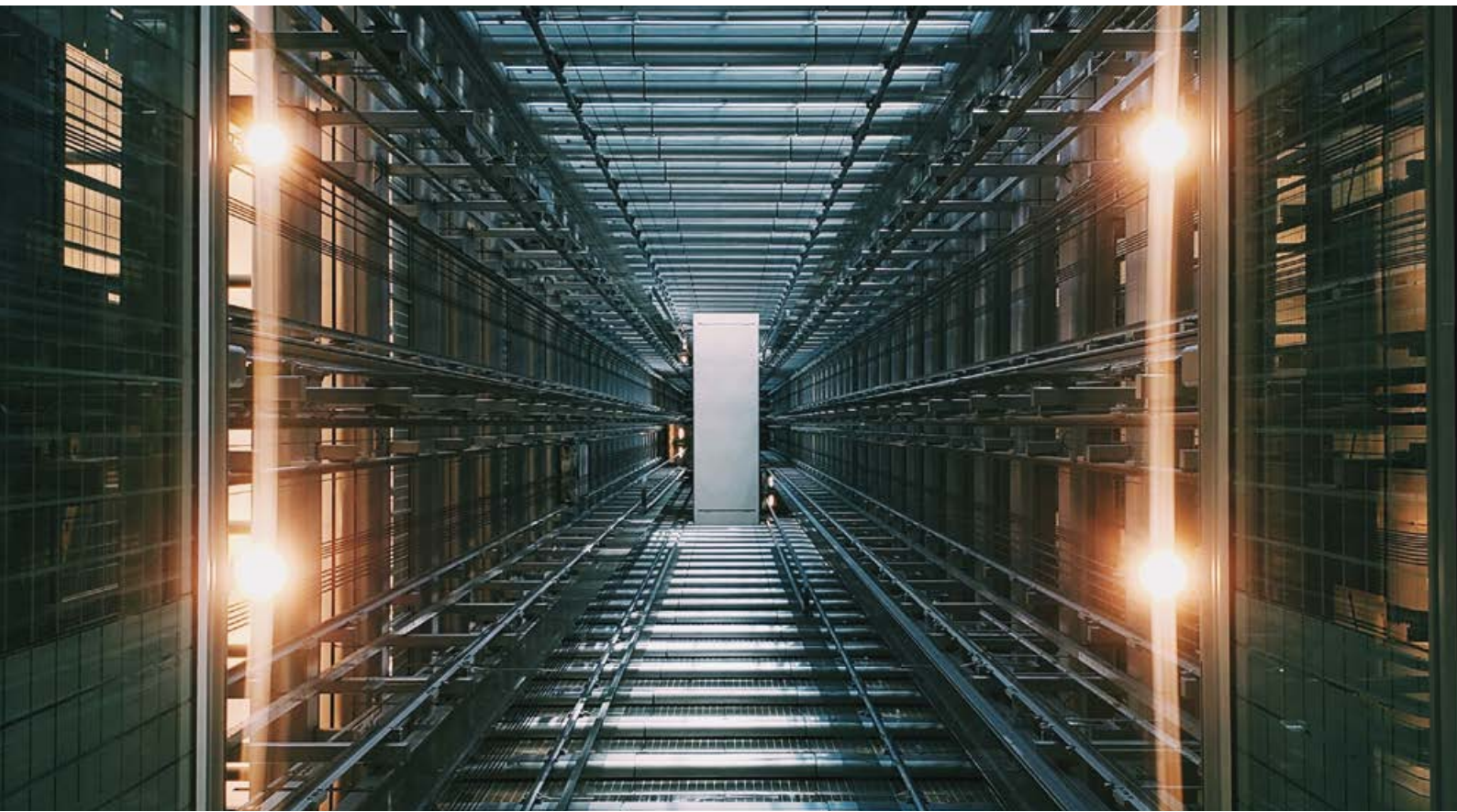
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Please scan or [click here](#)
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find out more about the
insulated panel range.



Please scan or [click here](#)
to contact us directly or
find out more about the
K-Roc™ range specifically.

For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com

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