



# Performance Guide



the next generation of aerated panels





K8



# SUPAPANEL®

K8 Australia has developed a panel based system for providing non-load bearing fire and acoustic rated walls. Using various steel thicknesses and concrete core densities to optimise cost and weight throughout the building project.

## Australian Made

K8 SUPAPANEL® is manufactured in Croydon South, Victoria by K8 Australia PTY LTD. Manufactured to the highest quality standards, we guarantee to use only quality materials in our manufacturing processes. K8 SUPAPANEL® is wholly Australian owned and manufactured from locally sourced materials.

K8 Australia is mindful of the environment and where ever possible always uses recycled components during the manufacturing process including our water system which enables us to have zero waste water leave our plant.

## BENEFITS

- Lightweight, narrow footprint, secure, fire and acoustic rated.
- K8 SUPAPANEL® can be manufactured to various steel thicknesses and concrete core densities optimising costs and weight throughout the building project.
- Is a simple modular system which is easy to handle and assemble with rapid installation.
- Demountable and re-usable.
- Has 40% more coverage per panel than other equivalent systems in the market.
- Provides a high level of security in comparison to other systems.
- Provides an instant water resistant weather barrier for exposed applications.
- Tested in accordance with AS 1530.4:2014 for Fire resistance performance.
- Compliant with the latest fire standards and building codes of Australia.
- Manufactured in Australia.
- Reusable panels.

# APPLICATIONS

- Commercial and office towers.
- High rise / high density residential.
- Shopping centres, supermarkets.
- Hospitals.
- Cinemas.
- Metropolitan and rural.
- Industrial.
- Factories.

## REPLACEMENT FOR

- Office shaft risers and complete vertical duct risers.
- Lightweight concrete block walls and non load bearing pre- cast walls.
- High quality intertenancy wall systems.
- Plenum for mechanical systems.
- Fire rated wall systems.
- Light weight plasterboard walls.

**K8 SUPAPANEL®** is manufactured from roll formed galvanised steel shells or coloured steel shells filled with a lightweight aerated concrete core.

**K8 SUPAPANEL®** provides a secure, non-load bearing fire and acoustic rated wall system with a narrow footprint. Each panel interlocks with a male/female joint system for simplicity and to provide rapid installation.

# Table of Contents

## Performance Guide

About Us	2
Design Considerations	5
Panel Weight	5
72mm Span Capacities	6
62mm Span Capacities	6
Technical Data - Fire	7
Technical Data - Acoustic	9
Technical Data - Wind	10

## Shaft Systems

Straight Shaft Construction	14
Shaft Construction to Structural Wall	15
Fire Shielding	17

## Stair Systems

Typical Double + Single Stair Options	19
Fire Shielding	21
Junction Details	22
Recess Posts	24
Mid Section Posts	26
Handrail Fitting Variation	27

## Other Documents

Manufacturer's Statement	28
Publication Control	29
Contact Us	30

**K8**



**SUPAPANEL®**



## Design Considerations

We are committed to ensuring K8 SUPAPANEL® meets and exceeds all current mandatory Australian standards for building projects Australia wide. To assist in performance solutions, K8 SUPAPANEL® supplement fire testing as well as organising a fully qualified engineer to cater for all applications on site for fire rated wall compliance.

<b>Fire</b>	K8 SUPAPANEL® systems have been tested to AS1530.4 to determine their fire resistance performance and tested to AS1530.1 to confirm their non-combustible product properties. We can provide Engineering performance based solutions for different scenarios of use outside testing fields
<b>Acoustics</b>	K8 SUPAPANEL® systems have been tested by Marshall Day Acoustics in accordance with AS1191 for acoustic ratings of the panels and wall systems.
<b>Wind load deflection</b>	All wind loading deflection has been undertaken by NATA registered laboratories in accordance with AS4040.2-1992 (non-cyclone regions).
<b>Seismic</b>	Please contact us for more information.
<b>Cyclonic</b>	Please contact us for more information.
<b>Structural</b>	Non load bearing panels are self supporting. Structural building design is required for the system.
<b>Air infiltration</b>	K8 SUPAPANEL® can be used as a fire rated pressurised plenum or shaft that is required to be air tight. NATA approved pressure testing available with relevant leakage rate versus pressure.

## Panel Weight

K8 SUPAPANEL® Weight of Panels								
Panel Density concrete core		350kg/m3	380kg/m3	450kg/m3	500kg/m3	650kg/m3	800kg/m3	1000kg/m3
<b>Weight per 1m (kg)</b>	62mm	10.7	11.54	12.96	14.15	17.40	20.56	25.00
	72mm	11.95	12.07	14.46	15.72	19.5	23.28	28.32
<b>Weight per m2 (kg)</b>	62mm	30.76	32.90	36.95	40.32	49.60	58.59	71.25
	72mm	34.05	34.4	41.21	44.80	55.57	66.34	80.71

## 72mm K8 Supapanel **Span Capacities**

Profile	72mm K8 SUPAPANEL®			
Fire rating (FRL)	-/120/120			
Direction of fire	Both directions			
Panel orientation	Vertical	Horizontal	Shaft	Stairs
Max span between structure	6.5m	6.5m	6.5m cross walls connected to a primary wall total length 6.5m	6.5m
Max wall length (single span)	Unlimited	Unlimited	Unlimited	Unlimited

## 62mm K8 Supapanel **Span Capacities**

Profile	62mm K8 SUPAPANEL®			
Fire rating (FRL)	-/180/90 with single sided caulked joints    -/180/60 no caulked joints			
Direction of fire	Both directions			
Panel orientation	Vertical	Horizontal	Shaft	Stairs
Max span between structure	4.0m	4.0m	4.0m with 4.0m cross walls attached	4.2m Single span with light weight structural steel of 8.0m. Double spans with light weight structural steel 8.2m
Max wall length (single span)	Unlimited	Unlimited	Unlimited	Unlimited

## Technical Data Fire

SYSTEM	DETAILS	FRL	WALL WIDTH
1A	62mm bare K8 SUPAPANEL® with 320kg core, 0.30 BMT steel shell. Screw fixings only on one side of the wall, no fixing in the head track, free floating.	-/180/60	62mm
Shaft 1A	62mm K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell with 1 x 13mm Fireshield on 16mm furring channel. Screw fixings only on one side of the wall, no fixing in the head track, free floating.	-/180/90	91mm
Shaft 2A	62mm K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell with 1 x 16mm Fireshield on 16mm furring channel. Screw fixings only on one side of the wall, no fixing in the head track, free floating.	-/180/120	94mm
Shaft 4	Bare 72mm K8 SUPAPANEL® with 350kg core, 0.35BMT steel shell.	-/120/120	72mm

K8 SUPAPANEL® wall testing after a 4 hour fire test carried out by Warrington Fire Testing & Certification



# Technical Data Fire



## CERTIFICATE

Engineering Evaluation Certificate

No. IGNS-9137-02C I01R00

**ISSUED** 29 August 2021  
**EXPIRY** 28 August 2026

**K8 SupaPanel  
Stair wall bounding  
construction**

**This document serves as a certificate from professional engineer in accordance with Clause A5.2(1)(e) of the National Construction Code Volume One and Two Building Code of Australia 2019 including Amendment 1 respectively.**

PRESENTED TO

**Wall Technology Pty Ltd**  
2-4 Sunset Drive  
Kilsyth South Vic 3137

ENGINEERING BODY

**Ignis Solutions Pty Ltd**  
ABN 24 160 047 125  
PO Box 5174  
Braddon ACT 2612  
[www.ignissolutions.com.au](http://www.ignissolutions.com.au)



**Product Description**

The K8 Supapanel is a 420mm x 72mm thick panel (nominal 350mm between panel to panel joints) comprised an aerated cement core encased in a 0.3 to 0.4mm thick mild galvanised steel 250 MPa skin with a 320kg to 380kg concrete core. The 0.3mm thick steel casing was subjected to testing. The K8 Supapanel wall system has been tested by pfits as well as Ignis Labs and reported in their test report PF19066 dated 21 January 2019 and IGNL-5043-04-03R I01R00 dated 20 May 2021 as well as assessed within report IGNS-9137-02R BBV1.0 I01R01 Stair 28 July 2021. The proposed wall system for use as a stair bounding construction includes the following detail:

- The total wall system is non-combustible.
- 72mm SupaPanel fixed together with the following fixing requirements:
  - The first adjacent joint screw fixing to the junction or adjacent wall is to be set at 175mm centres with 8g self drilling metal screws or 10g self drilling metal screws;
  - Panel to track fixing to use 8g self drilling metal screws at 350 mm centres or 10g self drilling metal screws at 700mm centres.
  - The maximum length between stud fixing is 4m
  - The maximum height is 4m for vertical panels
  - Panel to panel fixing is to be as per tested system being on the fire side only

**Scope of Use**

- From the product testing the K8 SupaPanel has been evaluated and deemed suitable for use as bounding construction for a stair in Class 2-9 buildings for Type A, B or C construction where a -/120/120 FRL is required.

**National Construction Code 2019 – Volume One and Two – BCA Amendment 1**

The following Clauses of the BCA (including all related State and Territory variations) have been evaluated and identified as being complied with:

**Volume One and Two – Building Code of Australia 2019 Amendment 1**

- Clause A5.1 (1)** evidence to support the use of a material meets the nominated Performance Requirements through the Governing Requirements of the NCC.
- Clause A5.2 (1)(e)** as evidence to support that the K8 Supapanel meets the nominated Performance Requirements under a certificate issued by a professional engineer (being this document).
- Schedule 5** Fire-resistance of building elements
  - Schedule 5 (2)(b) being a building element tested to the standard fire curve achieving an FRL of up to -/120/120 being improved from the tested wall system to include structured screw fixing as detailed above.

**Fire Resistance Level -/120/120**

The K8 Supapanel is to be installed in accordance with K8 Installation Guide 2020. The screw fixing adjacent to any fixed column joint on the two adjacent panel joints is to be enhanced. The first adjacent joint screw fixing is to be set at 175mm centres and the second adjacent joint screw fixing is to be 350mm centres with the remaining of the wall joint fixing to be at 700mm centres.

**Conditions and Limitations**

- This certificate is to be read in conjunction with Ignis Solutions compliance analysis IGNS-9137-02 BBV1.0 I01R01 dated 28 July 2021.



**Benjamin Hughes Brown** | FIEAust CPEng NER  
Chartered Professional Engineer  
CPEng, NER (Fire Safety), Tech 2590091, RPEQ11498, BDC-1875, PE0001872,  
MFireSafety (UWS), DipEng (UTS), GradDipBushFire(UWS), DipEngPrac (UTS), DipEng (CT)



## Technical Data **Acoustic**

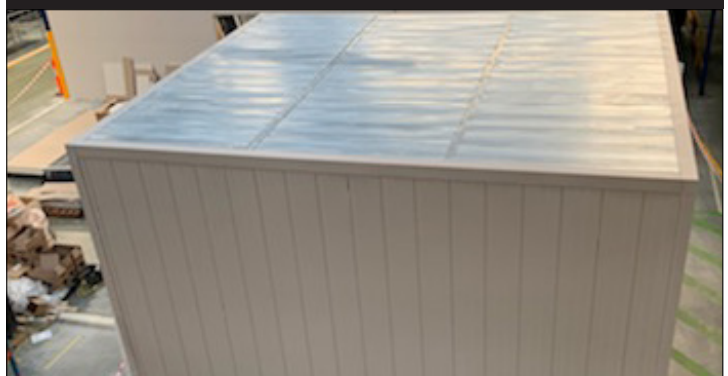
72mm Acoustic Ratings - Opinion						
SYSTEM	DETAILS	DnTw	Ctr	Net	FRL	WALL WIDTH
Shaft 4	Bare 72mm K8 SUPAPANEL® with 350kg core 0.35BMT steel shell.	36	-3	33	-/120/120	72mm
Shaft 4A	Bare 72mm K8 SUPAPANEL® with 350kg core 0.35BMT steel shell with 1 layer of 13mm fire rated plasterboard on one side with 16mm batten.	43	-5	38	-/120/120	101mm
Shaft 4B	Bare 72mm K8 SUPAPANEL® with 350kg core 0.35BMT steel shell with 1 layer of 13mm fire rated plasterboard on one side. Betafix clip and Bradford insulation 25mm x 18kg.	50	-9	41	-/120/120	113mm
Tenancy 4A	Bare 72mm K8 SUPAPANEL® with 350kg core 0.35BMT steel shell with 1 layer of 13mm fire-rated plasterboard on 16mm furring channel with no insulation. 20mm cavity on opposite side. 51mm 0.50 stud wall. 13mm plasterboard and 75mm x 14kg glasswool insulation.	58	-10	48	-/120/120	197mm
Tenancy Shaft 5A	72mm K8 SUPAPANEL® with 350kg core 0.35BMT steel shell. 20mm cavity on other side 51mm, 0.5 Knauf stud 13mm RE PB and 75mm x 14kg Bradford insulation.	57	-9	48	-/120/120	156mm

62mm Acoustic Ratings - Performed by Marshall Day Field Testing						
SYSTEM	DETAILS	DnTw	Ctr	Net	FRL	WALL WIDTH
1A	62mm bare K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell	35	-3	32	-/180/60	62mm
Shaft 1B	62mm K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell with 1x13mm Fireshield on 28mm gap and 25mmx18kg Bradford insulation	49	-9	40	-/180/90	103mm
Tenancy 1B	62mm K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell with 1x13mm RE plasterboard, 28mm gap and no insulation. 20mm cavity on other side, 51mm, 0.5mm Knauf stud, 13mm REPB and 75mmx14kg Bradford insulation.	55	-9	46	-/180/60	187mm
Apartment Shaft 3A	62mm K8 SUPAPANEL® with 380kg core, 0.35BMT steel shell. 20mm cavity on other side, 51mm, 0.5mm Knauf stud, 13mm REPB and 75mmx14kg Bradford insulation.	56	-9	47	-/180/60	146mm

Marshall Day Acoustics Pty Ltd (MDA) was commissioned by K8 Australia Pty Ltd to undertake airborne sound insulation testing of proto-type wall panel systems within their dedicated test facility.

Other tested systems are available on request.

K8 SUPAPANEL® verberation chamber - Acoustic testing



# Technical Data **Wind Loads**

DETAILS	WALL HEIGHT	Pa
72mm K8 SUPAPANEL® with 380kg core, 0.30BMT steel shell	6.5m	250
62mm K8 SUPAPANEL® with 380kg core, 0.30BMT steel shell	4.0m	780

K8 SUPAPANEL® wind test being performed



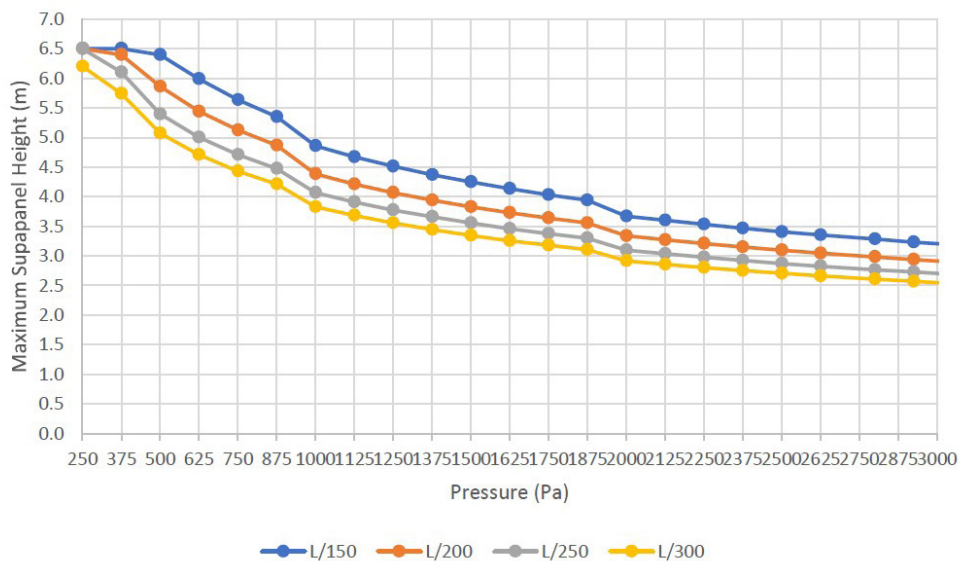
K8 SUPAPANEL® onsite install



# Technical Data Wind Loads

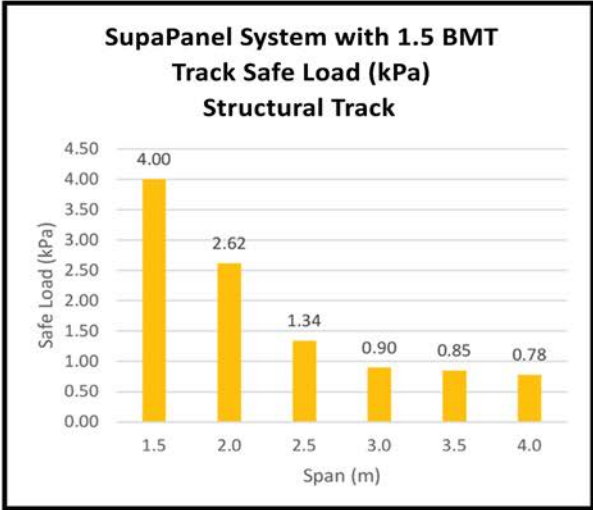
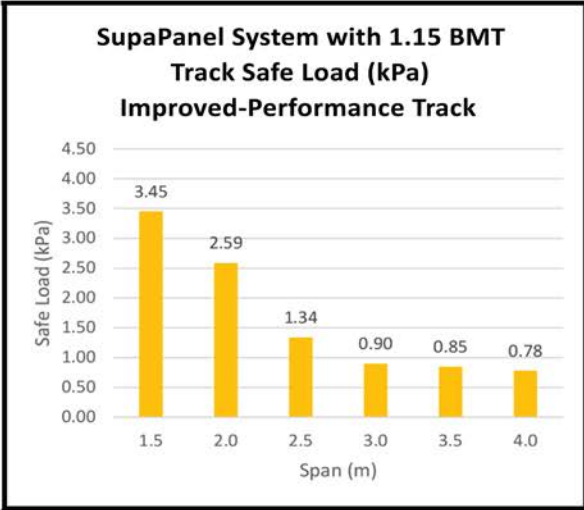
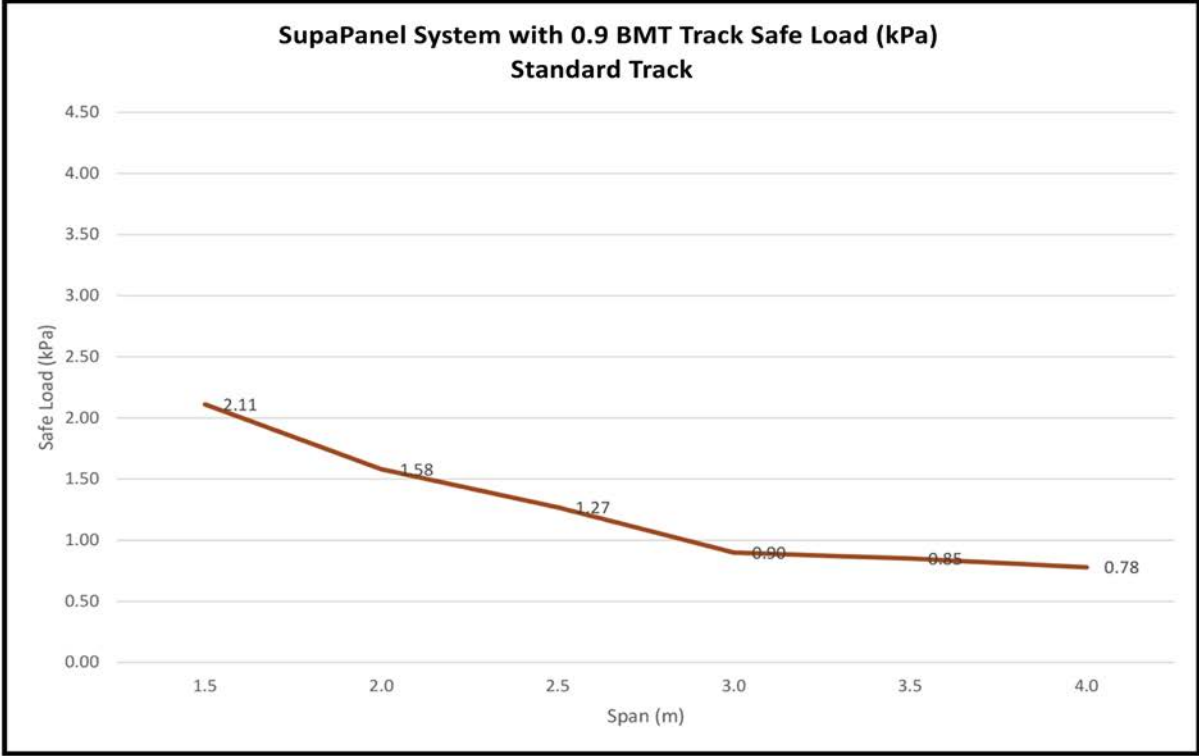
72mm wind load span charts as per Robert Bird Engineering

Pressure (Pa)	Maximum Supapanel Height (m)			
	L/150	L/200	L/250	L/300
250	6.5	6.5	6.5	6.2
375	6.5	6.4	6.1	5.7
500	6.4	5.9	5.4	5.1
625	6.0	5.4	5.0	4.7
750	5.6	5.1	4.7	4.4
875	5.4	4.9	4.5	4.2
1000	4.9	4.4	4.1	3.8
1125	4.7	4.2	3.9	3.7
1250	4.5	4.1	3.8	3.6
1375	4.4	3.9	3.7	3.4
1500	4.2	3.8	3.6	3.3
1625	4.1	3.7	3.5	3.3
1750	4.0	3.6	3.4	3.2
1875	3.9	3.6	3.3	3.1
2000	3.7	3.3	3.1	2.9
2125	3.6	3.3	3.0	2.9
2250	3.5	3.2	3.0	2.8
2375	3.5	3.2	2.9	2.8
2500	3.4	3.1	2.9	2.7
2625	3.4	3.0	2.8	2.7
2800	3.3	3.0	2.8	2.6
2925	3.2	2.9	2.7	2.6
3050	3.2	2.9	2.7	2.5



# Technical Data Wind Loads

62mm wind load span charts as per Robert Bird Engineering





# Shaft Systems



the next generation of aerated panels

# Table of Contents

## Shaft Systems

Straight Shaft Construction	2
Shaft Construction to Structural Wall	3
Fire Shielding	5
Manufacturer's Statement	6
Publication Control	7
Contact Us	8

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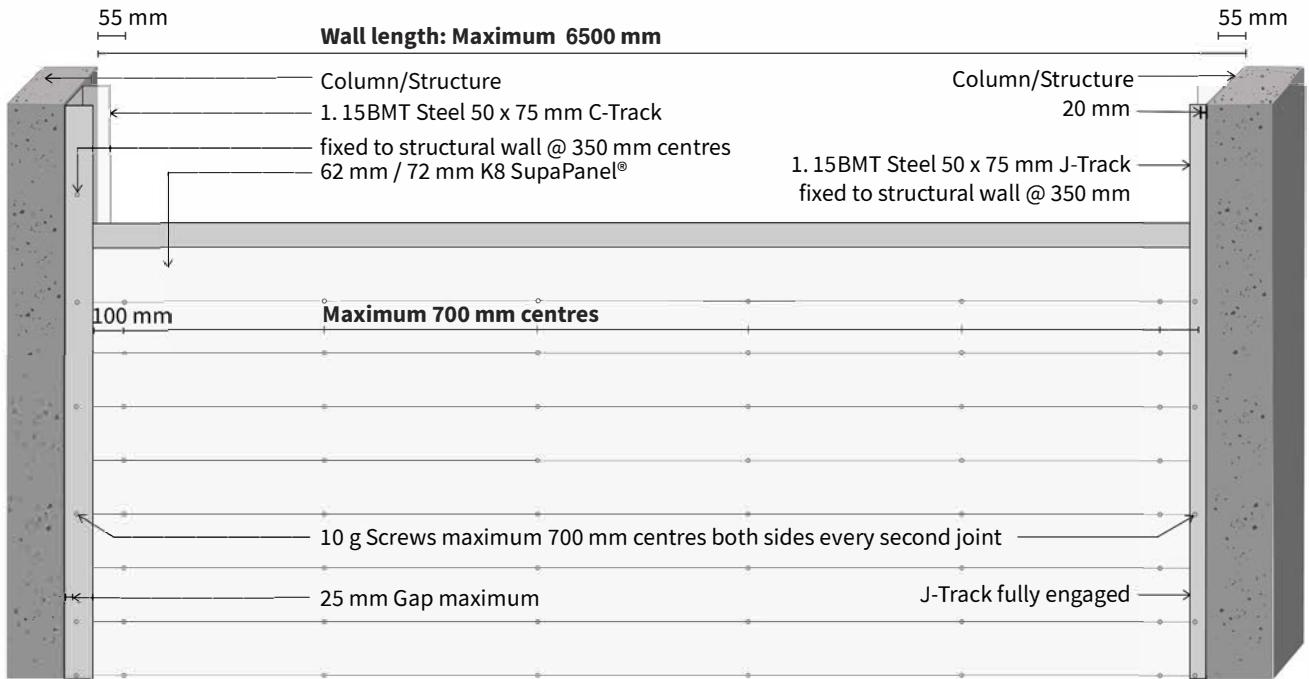


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## 2.0 SHAFT CONSTRUCTION

72mm -/120/120



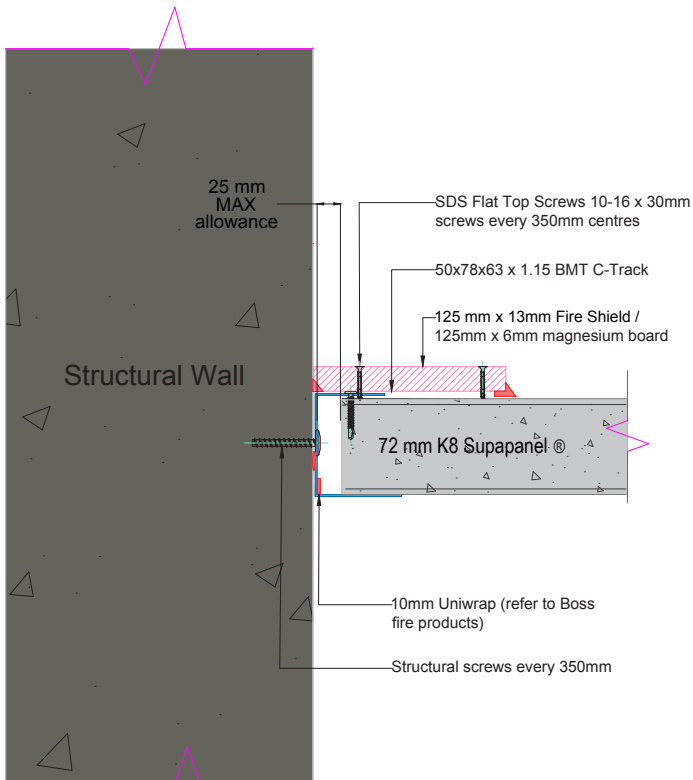
72MM SHAFT JOINT

-/120/120

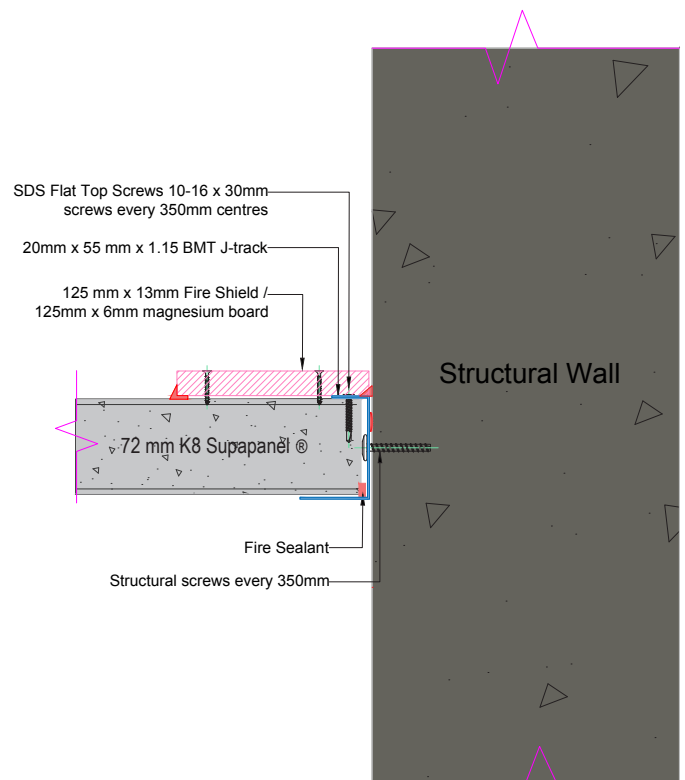
72MM SHAFT JOINT

-/120/120

### HORIZONTAL K8 SUPAPANEL SYSTEM



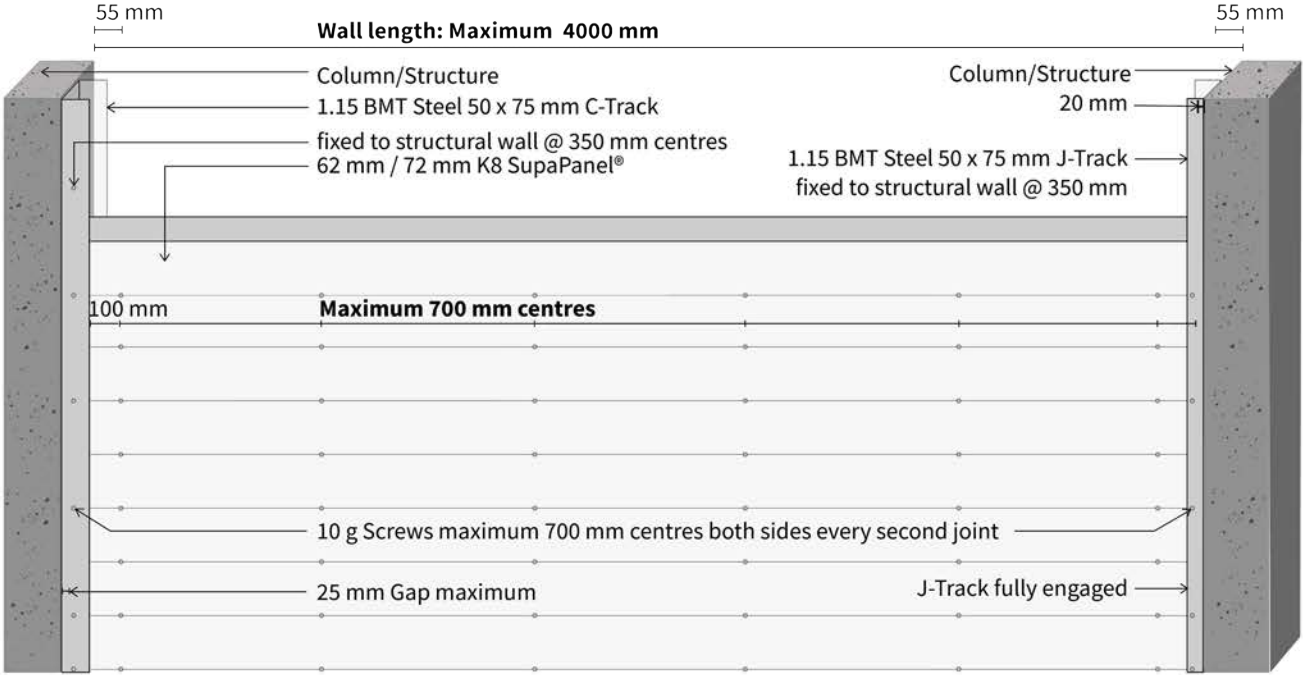
\*\* 25 MM GAP ALLOWANCE IN THE TOP TRACK \*\*



\*\* J TRACK IS FULLY ENGAGED \*\*

2.0 SHAFT CONSTRUCTION

62mm -/180/90  
SEALED JOINTS



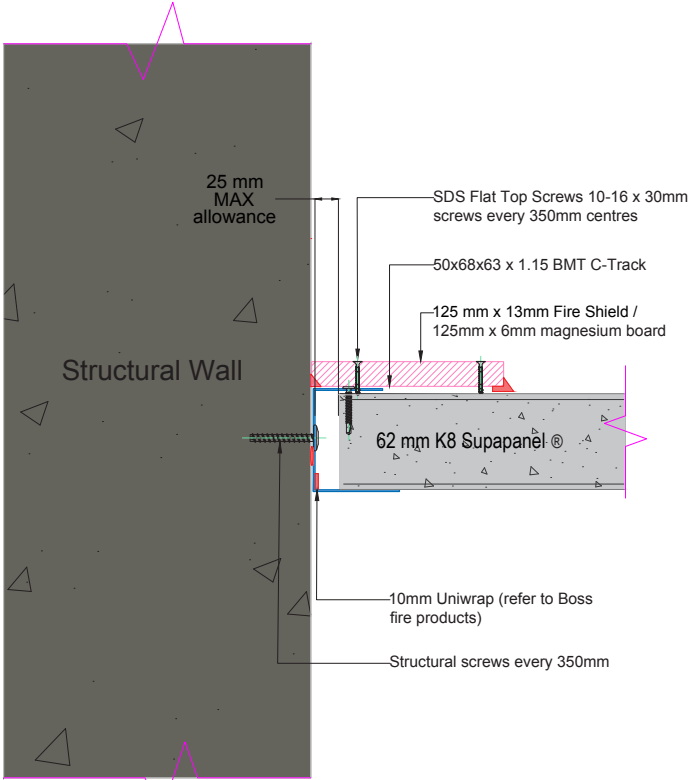
62MM SHAFT JOINT

-/180/90  
SEALED JOINTS

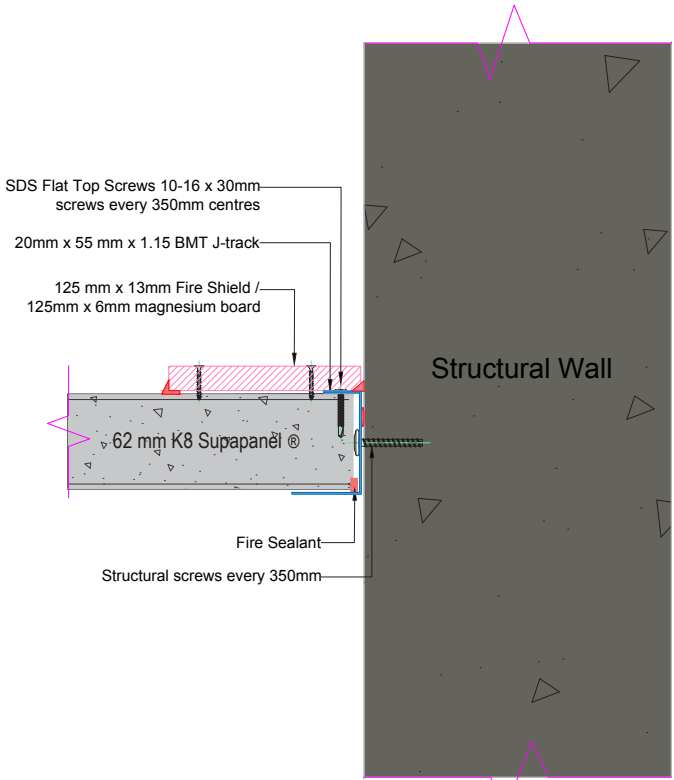
62MM SHAFT JOINT

-/180/90  
SEALED JOINTS

HORIZONTAL K8 SUPAPANEL SYSTEM



\*\* 25 MM GAP ALLOWANCE IN THE TOP TRACK \*\*



\*\* J TRACK IS FULLY ENGAGED \*\*



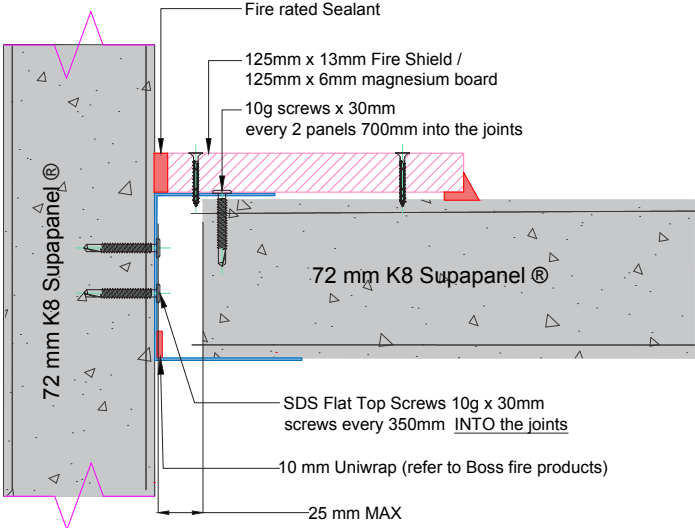
2.1 FULL SHAFT CONSTRUCTION WITH SUPAPANEL

72mm -/120/120

72MM SHAFT JOINT

-/120/120

C-TRACK SYSTEM

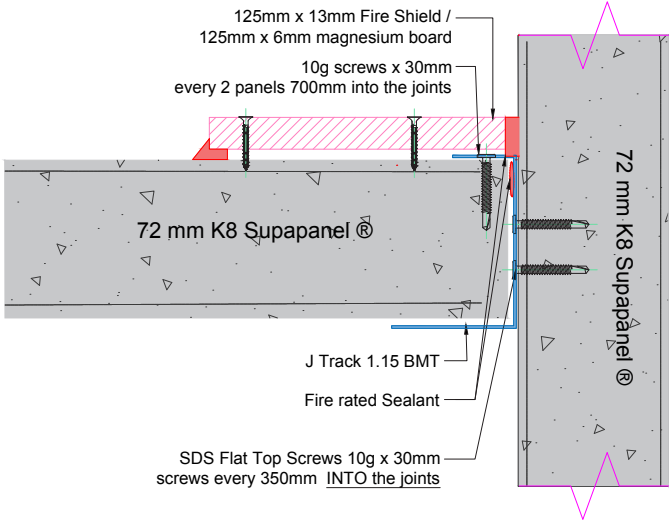


\*\* 25 MM GAP ALLOWANCE IN THE TOP TRACK \*\*

72MM SHAFT JOINT

-/120/120

J-TRACK SYSTEM

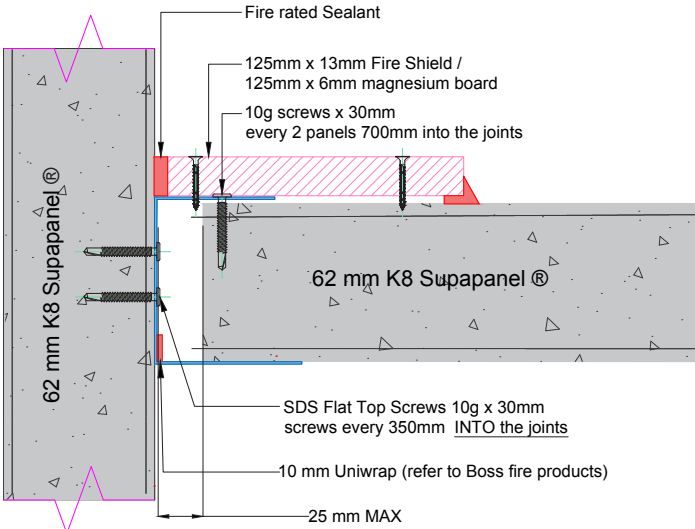


\*\* J TRACK IS FULLY ENGAGED \*\*

62MM SHAFT JOINT

-/180/90  
SEALED JOINTS

C-TRACK SYSTEM

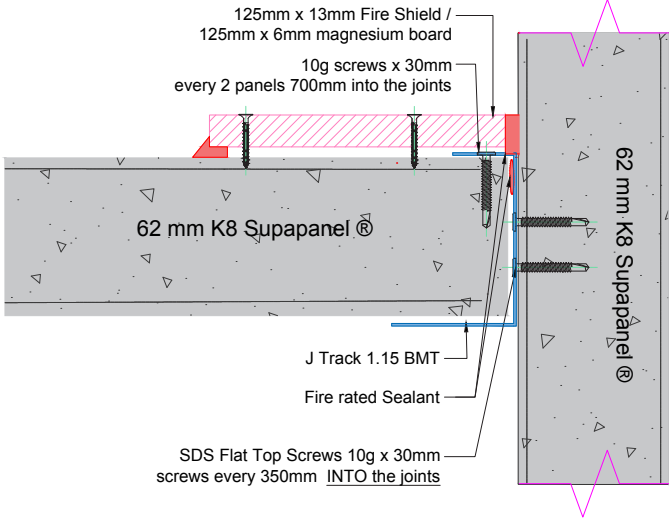


\*\* 25 MM GAP ALLOWANCE IN THE TOP TRACK \*\*

62MM SHAFT JOINT

-/180/90  
SEALED JOINTS

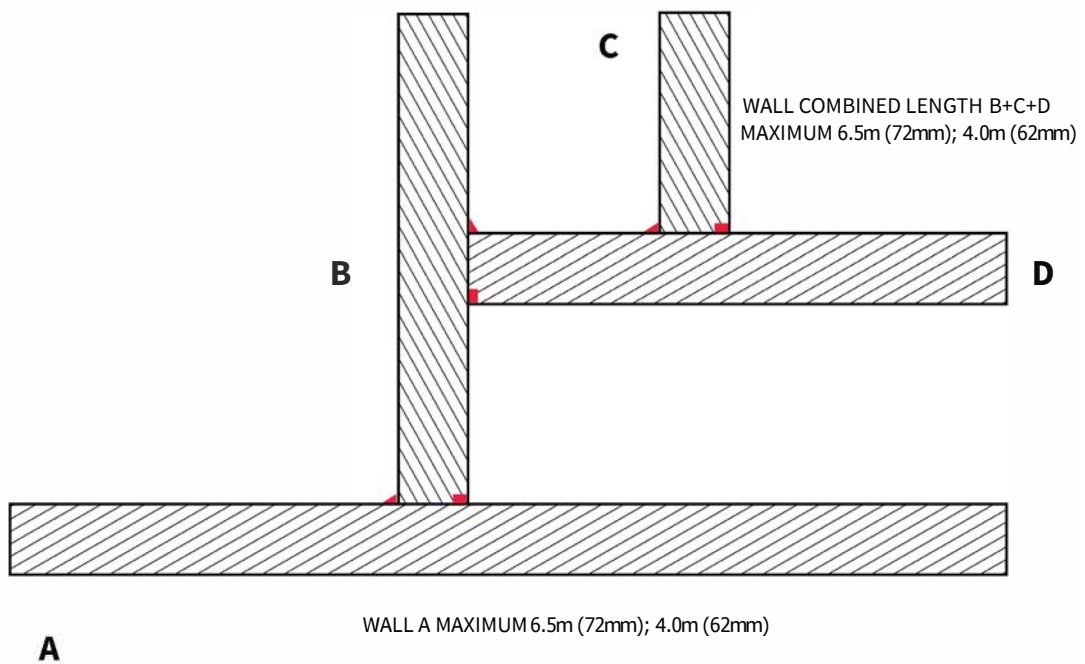
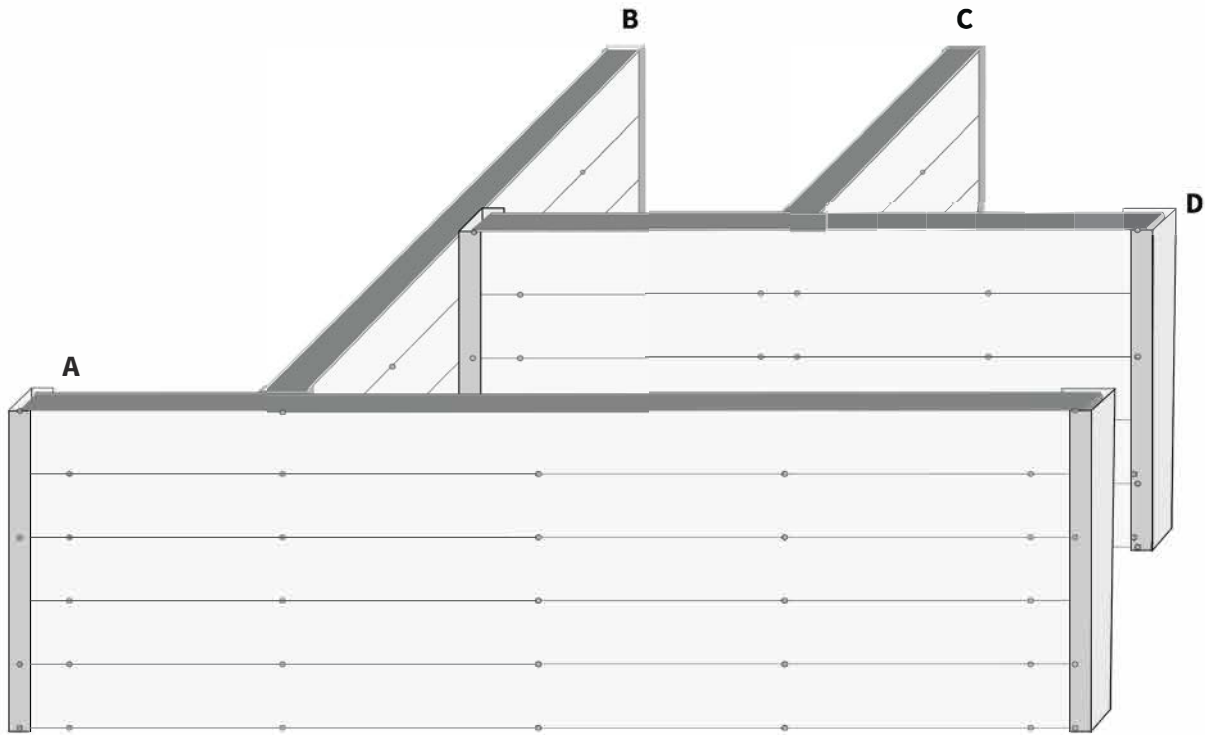
J-TRACK SYSTEM



\*\* J TRACK IS FULLY ENGAGED \*\*

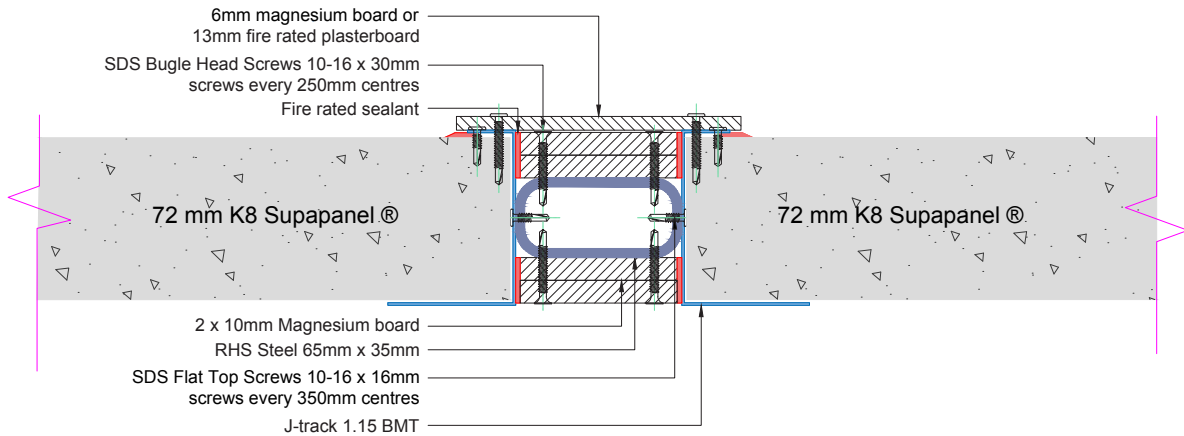
## 2.2 HANGING SHAFT CONSTRUCTION TO STRUCTURAL WALL

### OPTIONS



## 2.4 FIRE SHIELDING BACK TO BACK POSTS

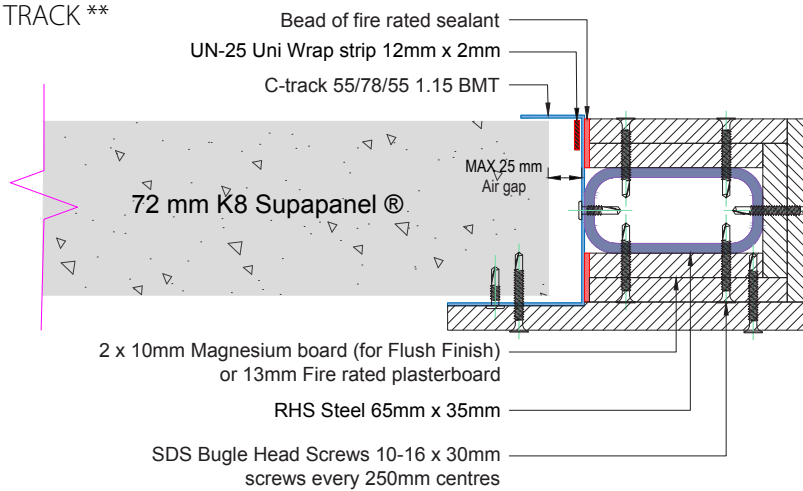
### CENTRE POST



## 2.5 FIRE SHIELDING ON POSTS

### END POST C-TRACK

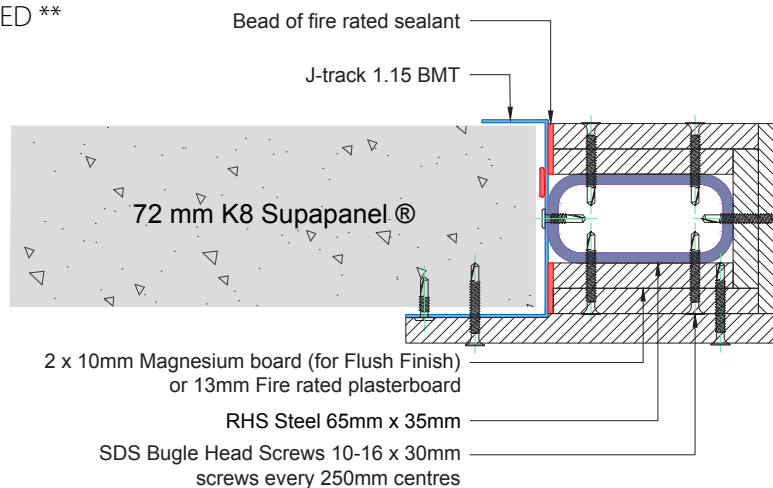
\*\* 25 MM GAP IN THE TOP TRACK \*\*



## 2.6 FIRE SHIELDING ON POSTS

### END POST J-TRACK

\*\* J TRACK IS FULLY ENGAGED \*\*



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# Stair Systems



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# Table of Contents

## Stair Systems

Typical Double + Single Stair Options	2
Fire Shielding	4
Junction Details	5
Recess Posts	7
Mid Section Posts	9
Handrail Fitting Variation	10
Manufacturer's Statement	11
Publication Control	12
Contact Us	13

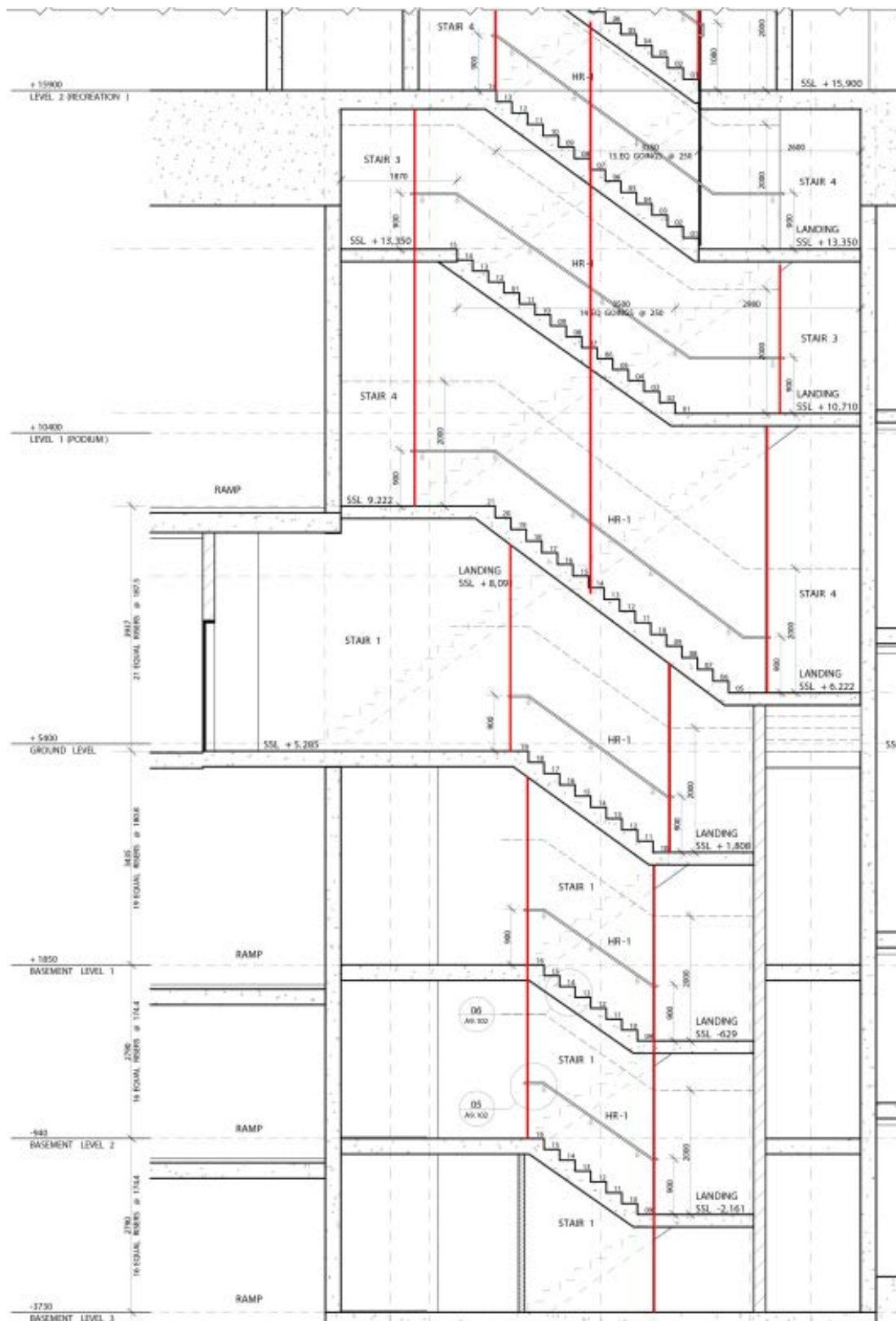
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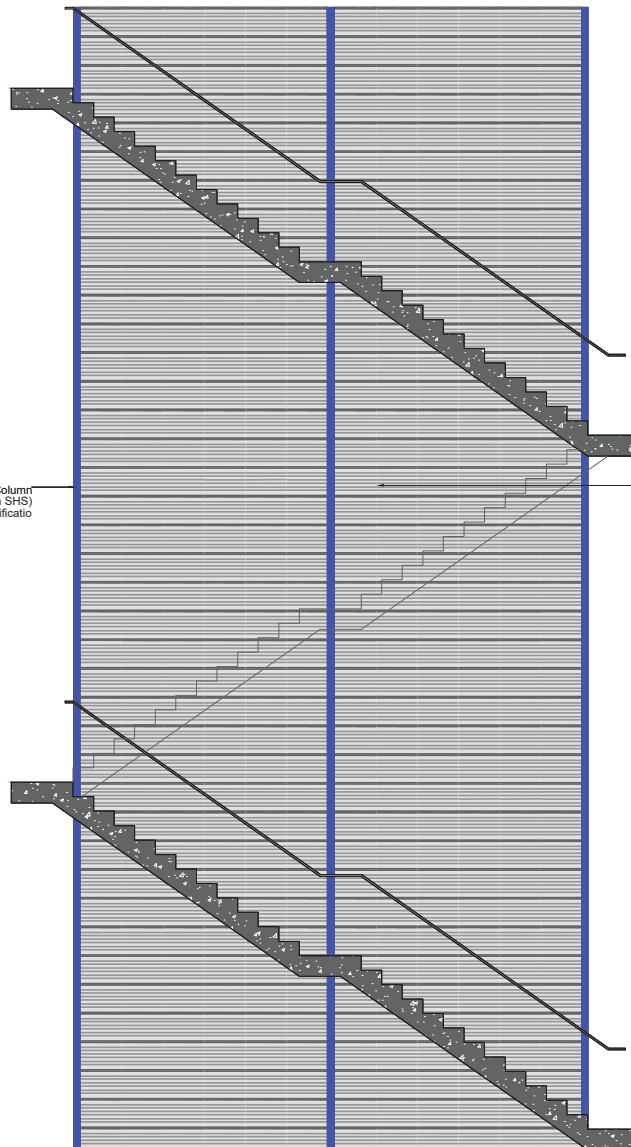
## 3.0 TYPICAL DOUBLE STAIR EXAMPLE



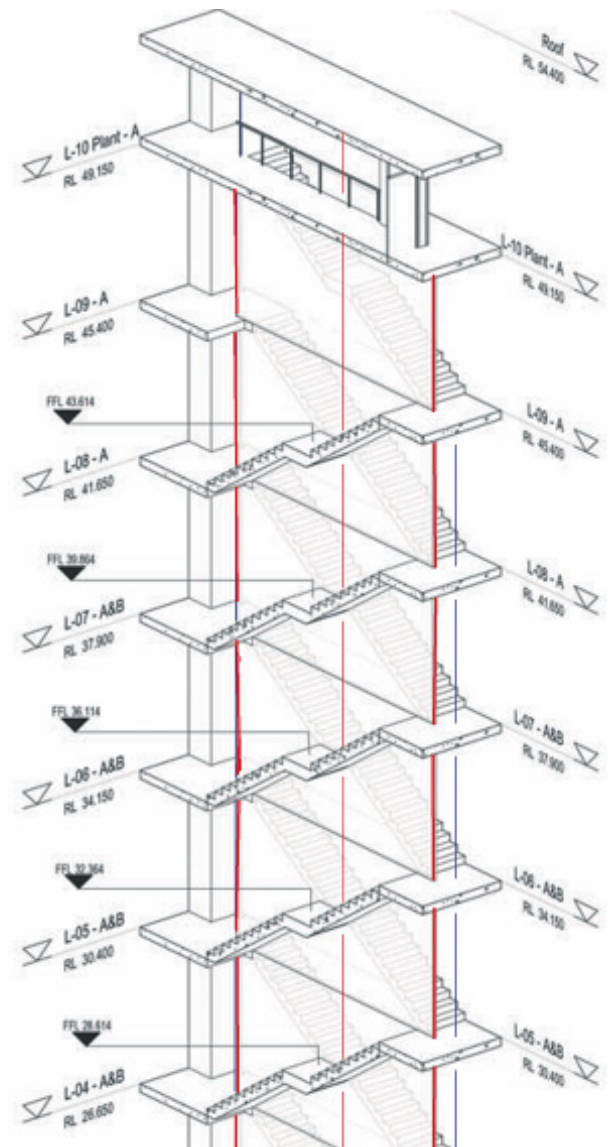
### NOTES:

- Maximum vertical column height is 4.8m. If longer spans are required, a job specific engineer will need to be engaged.
  - This design assumes the stair engineering takes into account the weight of columns and stair concrete is minimum 32mp's.
  - Columns have been designed for lateral wind load of 250Pa's. If columns are to be designed larger than this job, a specific engineer will need to be engaged.
  - The gap between stair landings at the column connection points is assumed to be maximum 85mm. If greater than this, a job specific engineer will need to be engaged.
  - If other site conditions vary from those specified on these plans, a job specific engineer will need to be engaged.
- \* RED LINE INDICATES THE ADDED POST
- \* RHS 35 X 65 X 4mm.

## 3.1 TYPICAL SINGLE STAIR OPTION



Supporting Column  
(Recommended 35 \* 65 \* 4mm SHS)  
Please refer to Engineers for further clarification



\* BLUE LINE INDICATES THE ADDED COLUMN.

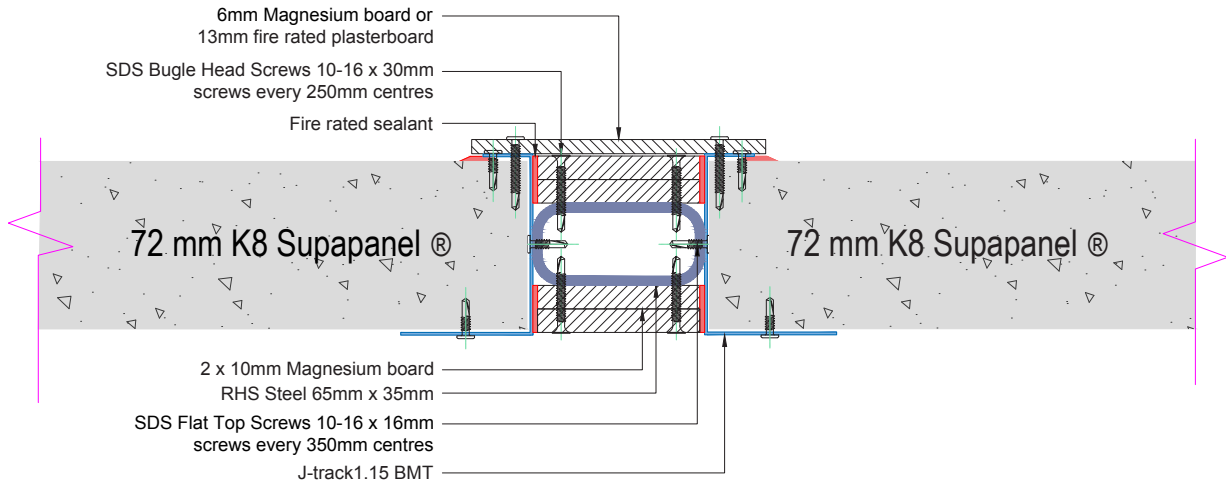
- Recommended SHS 65 x 45 x 4mm.
- The gaps between the wall & the stair could easily be sealed and covered (No additional structural angles or others required).
- If other site conditions vary from those specified on these plans, a job specific engineer will need to be engaged.

\* RED LINE INDICATES THE ADDED COLUMN.

- Currently maximum span between columns have been assigned at 6.5m.

## 3.2 FIRE SHIELDING ON POSTS

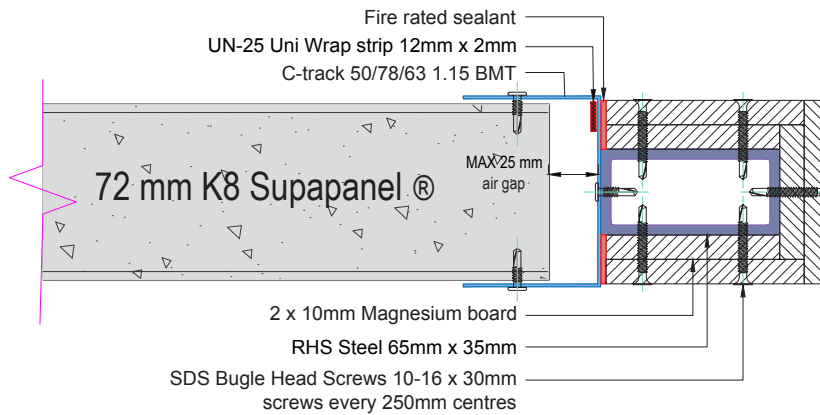
### CENTRE POST



## 3.3 FIRE SHIELDING ON POSTS

### END POST C-TRACK

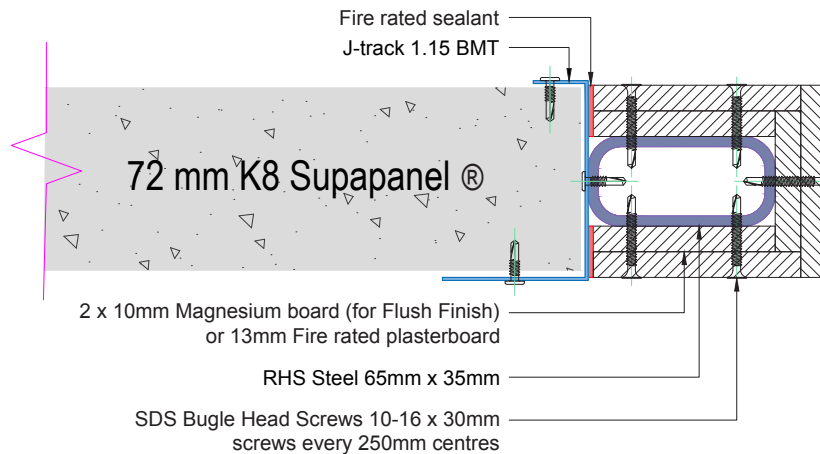
\*\* 25 MM GAP IN THE TOP TRACK \*\*



## 3.4 FIRE SHIELDING ON POSTS

### END POST J-TRACK

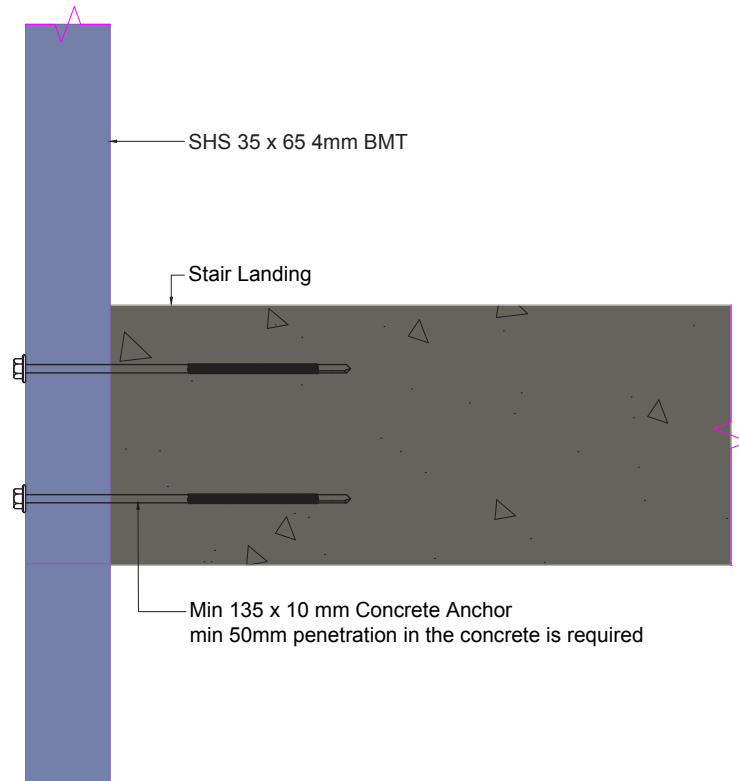
\*\* J TRACK IS FULLY ENGAGED \*\*



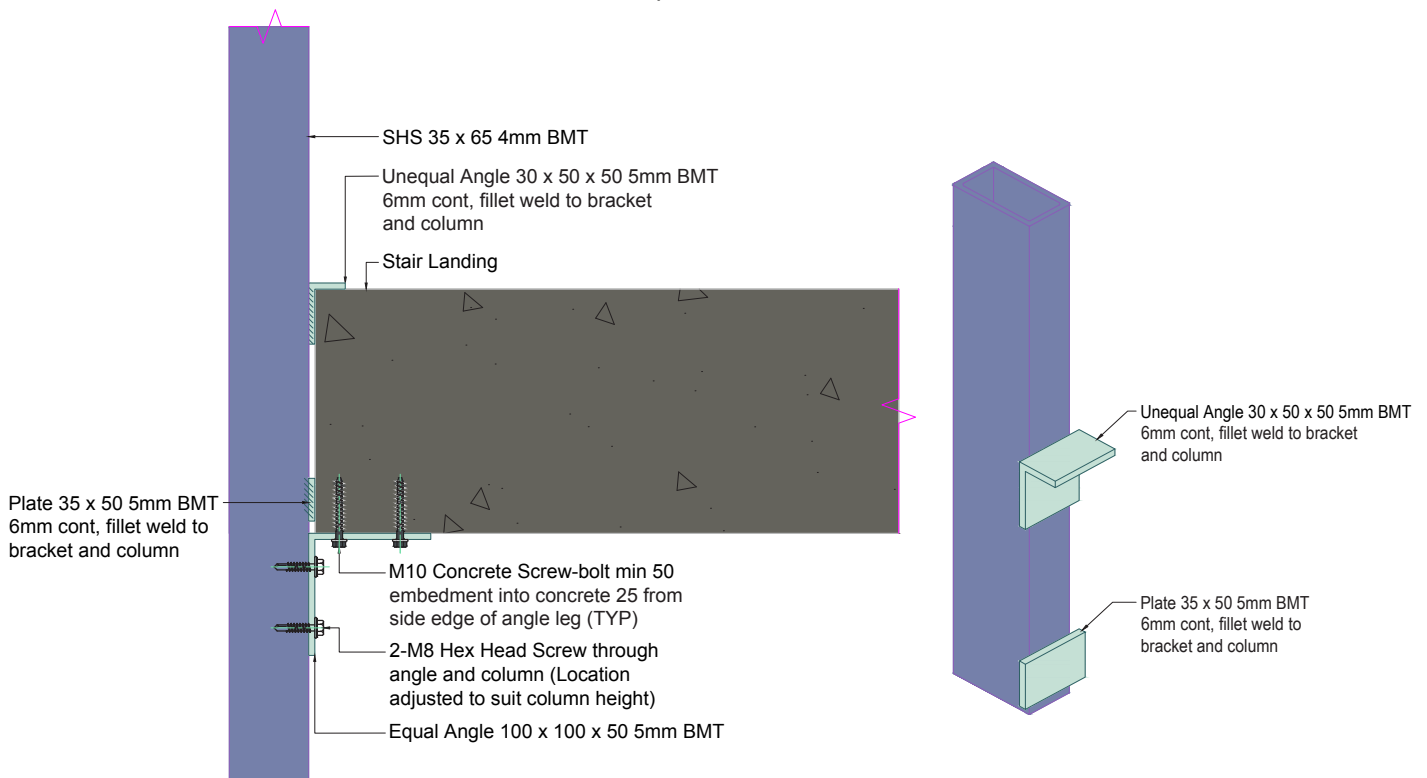


## 3.5 JUNCTION DETAILS - POST SUSPENDED OFF LANDING

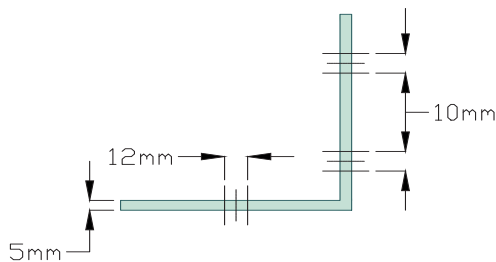
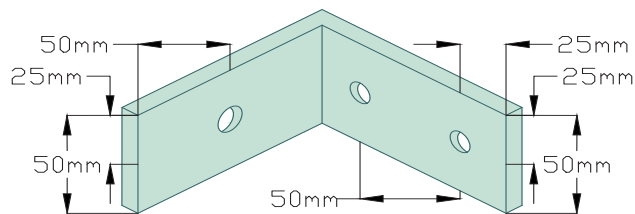
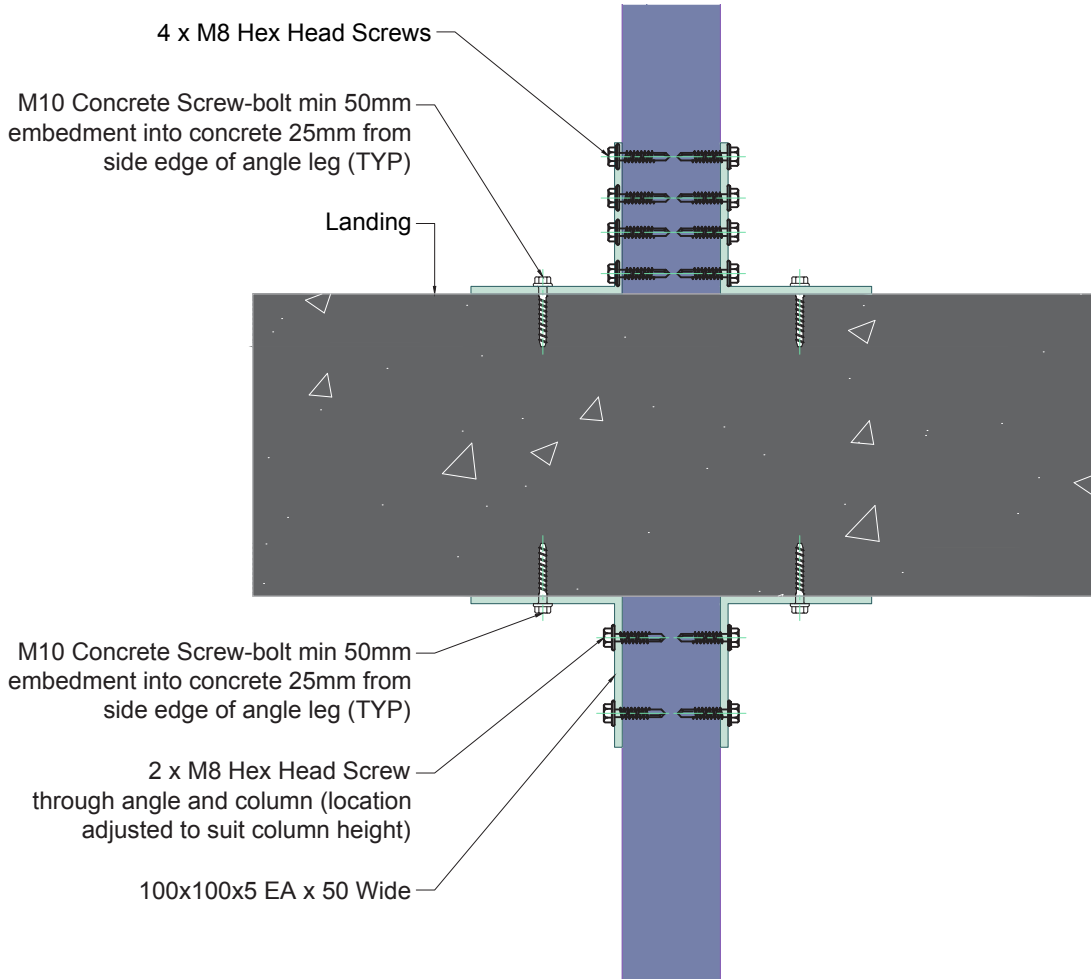
### Option 1



### Option 2

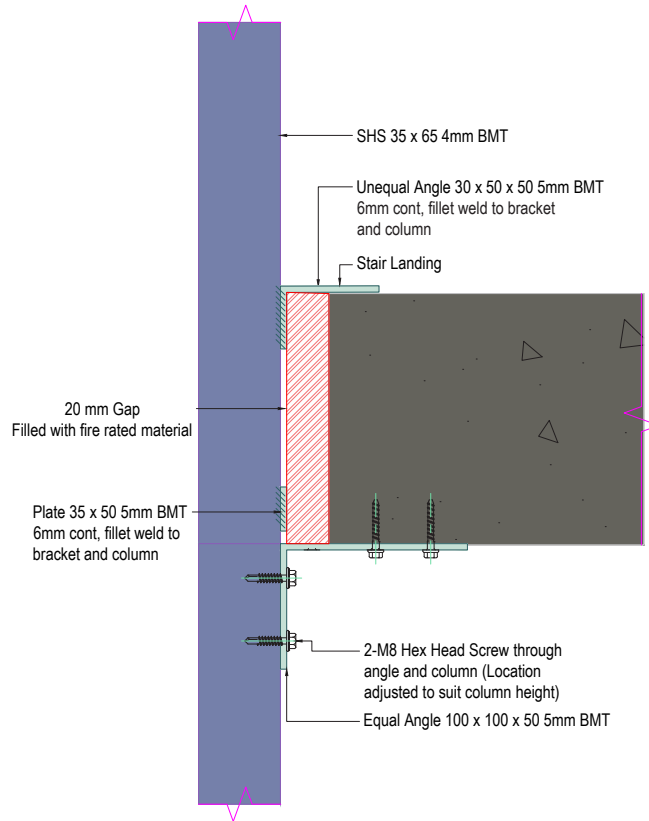


## 3.6 JUNCTION DETAILS - POST SUSPENDED ON LANDING

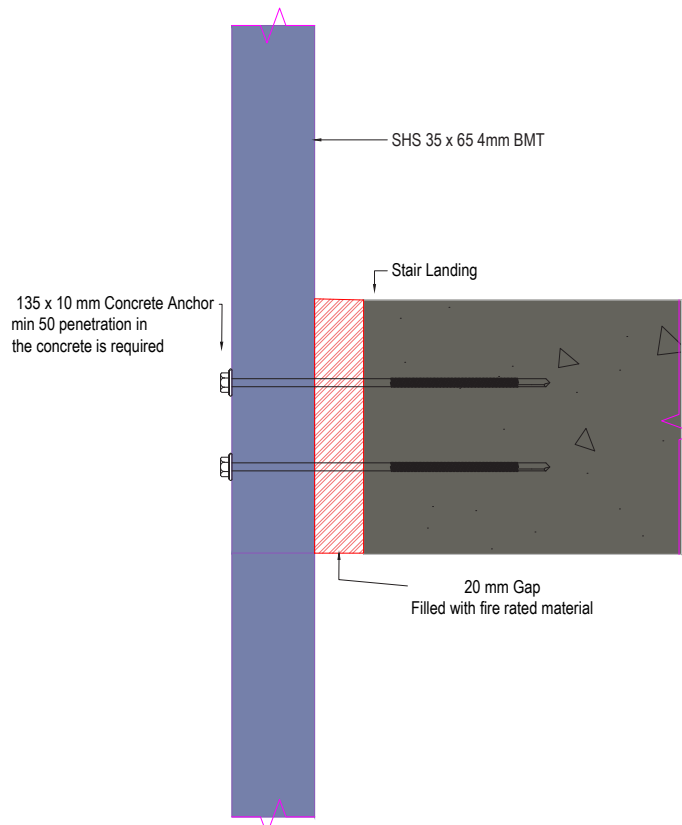


## 3.7 RECESS POST SUSPENDED OFF LANDINGS

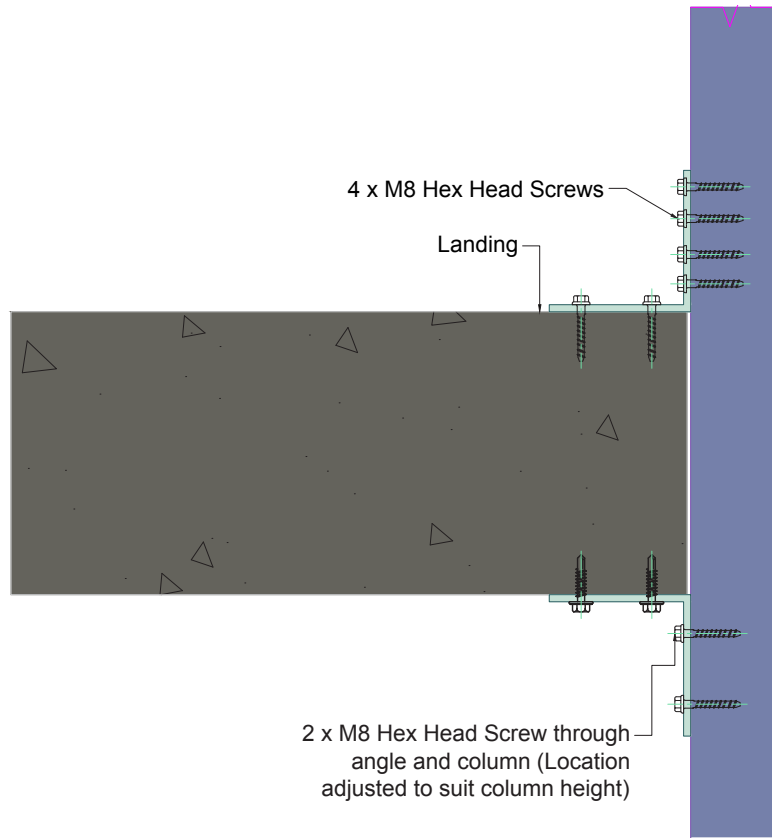
### Option 1



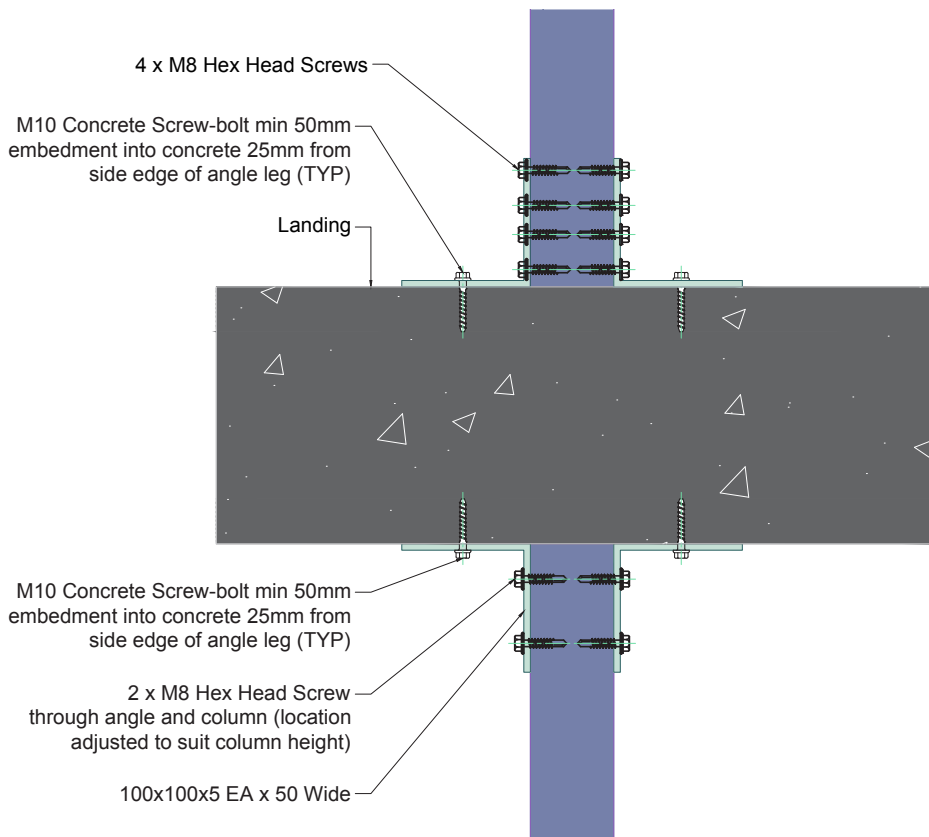
### Option 2



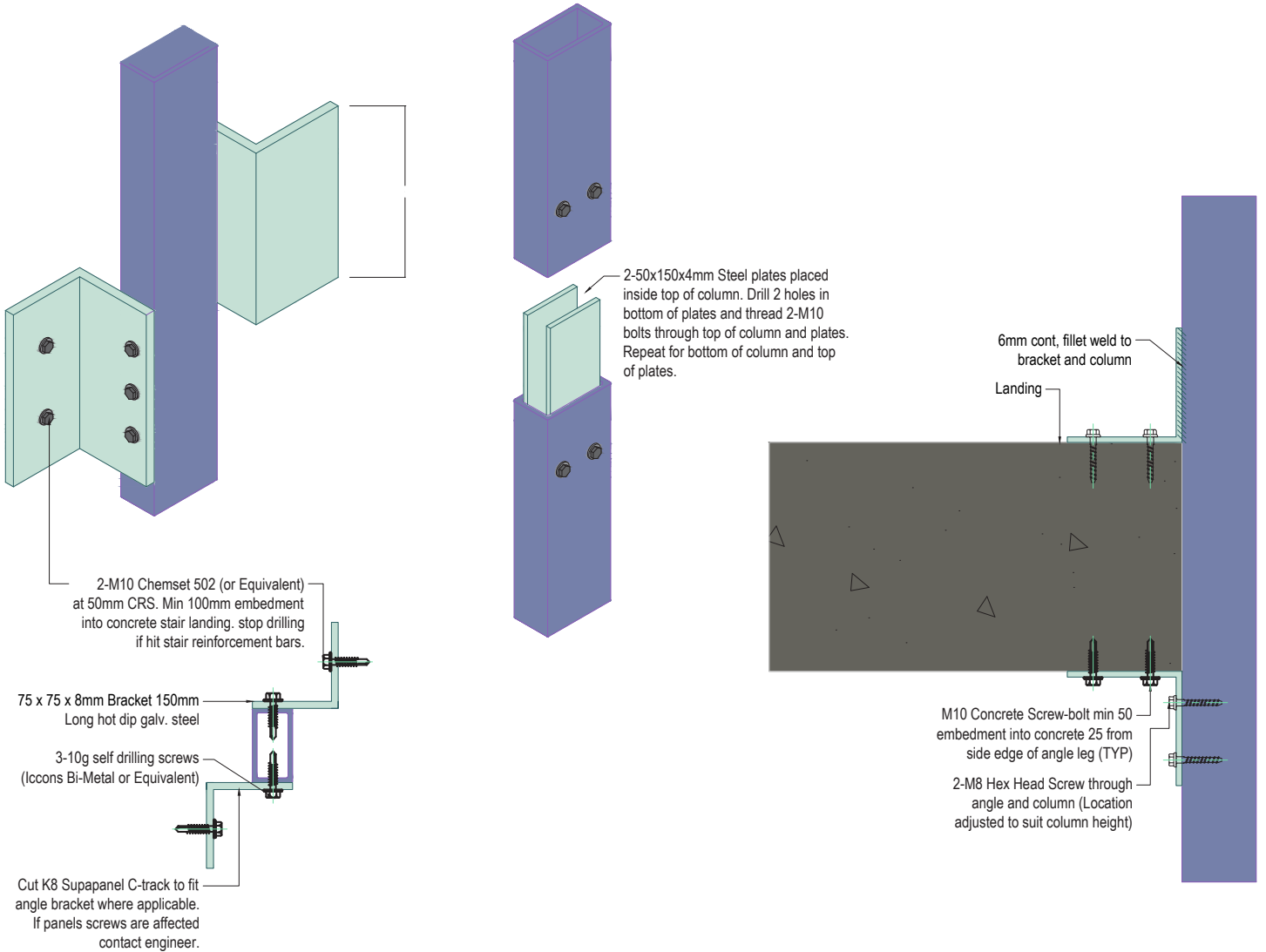
## 3.8 RECESS POST SUSPENDED ON LANDINGS



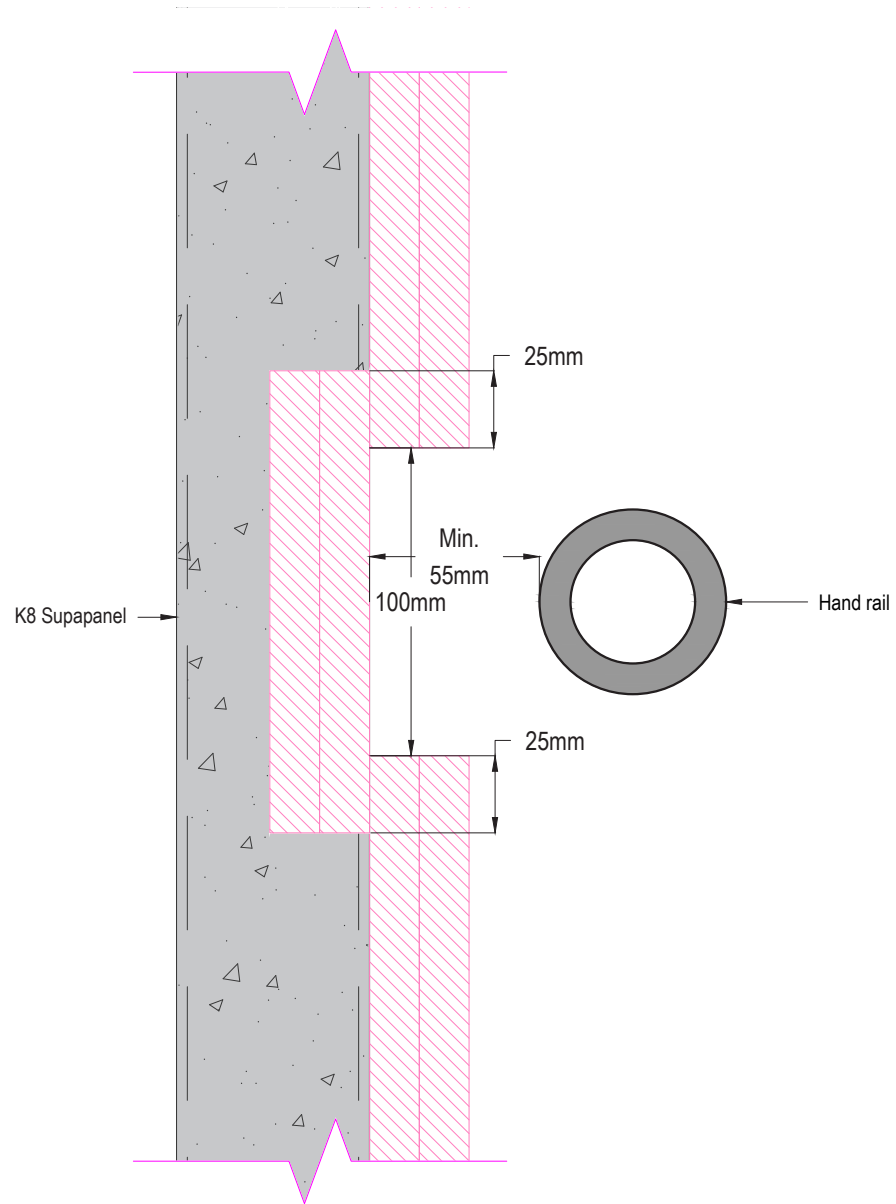
## 3.9 POST ON CROSS OVER LANDINGS



## 4.0 MID SECTION POSTS RUNNING POST STAIR RISERS



## 4.1 VARIATION FOR POST HANDRAIL FITTING



This is to be used when there is insufficient room for fitting the handrail by the landing intersection.

## Care, Skill and Attention Required

The performance criteria, ratings, and specifications for various K8 SUPAPANEL® systems have been developed and certified by independent testing bodies. Any products, components or fixings that are not specifically sold by us must be certified for use within the K8 SUPAPANEL® systems by an independent testing body prior to their use within a K8 SUPAPANEL® system or otherwise approved by K8 Australia or any authorised distributor. Use of products or certified by independent testing bodies or approved by K8 Australia may void any warranties on K8 SUPAPANEL® systems. We disclaim all liability for any loss and damage suffered by you from your side of products, components, or fixings within K8 SUPAPANEL® systems that are not K8 SUPAPANEL® products or certified by independent testing bodies or approved by K8 Australia or any authorised distributor. It is critical that you carefully consider the details in your design, construction and workmanship and carry these out with the same due care, skill and diligence. Failure to do so could result in the performance of the K8 SUPAPANEL® systems being significantly compromised and/or may result in failure of K8 SUPAPANEL® systems in your proposed design and/or construction project.

## Liability

To the extent permissible by law and without limiting any other right we may have, K8 Australia or any authorised distributor accept no liability for any loss or damage arising if any K8 SUPAPANEL® systems are not designed and constructed strictly in accordance with the instructions contained in this brochure and/or the supplementary material or as otherwise instructed by K8 Australia or an authorised distributor.

## Disclaimer

This brochure and the supplementary material are provided to you as a general guide only and should not be relied upon by you without additional advice from a suitably qualified person(s). We do not and will not, under any circumstances, warrant, guarantee or represent, and we disclaim any responsibility or liability for the accuracy, completeness or efficiency of the information contained in this brochure.

Every effort is taken to ensure any updated certification documents and testing data is uploaded onto our website immediately. When enquiring about using K8 SUPAPANEL® for your next project, ensure K8 SUPAPANEL® is compliant for your needs.

All information contained within this brochure and any reports, installation guides, specifications, and/or other supplementary documents and information referred to in this marketing collateral ("Supplementary material") have been prepared by or on behalf of K8 Australia Pty Ltd ("us", "we" or "our") to assist the user of this brochure ("you" or "your") to design and construct K8 SUPAPANEL® systems only in general applications. (None of these included specifications or designs are project or site-specific).

Before designing and/or installing K8 SUPAPANEL® you must engage or seek advice from a suitably qualified person (such as an architect, engineer and/or another design consultant) to, amongst other things:

Review all relevant content in this brochure, the supplementary material and all other product information, installation guides and data available from us upon request;

Assess whether or not K8 SUPAPANEL® systems are appropriate and suitable for your proposed design and/or construction project;

If appropriate & suitable, prepare project specific information and documentation to the design and construction of K8 SUPAPANEL® systems for your proposed project.

Ensure that K8 SUPAPANEL® products separately and collectively, when used in a K8 SUPAPANEL® system, meet the requirements of the building laws, rules, regulations, codes, standards, orders or declarations applicable in the location in which K8 SUPAPANEL® systems are to be constructed.







**reflex**  
P A N E L S

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