

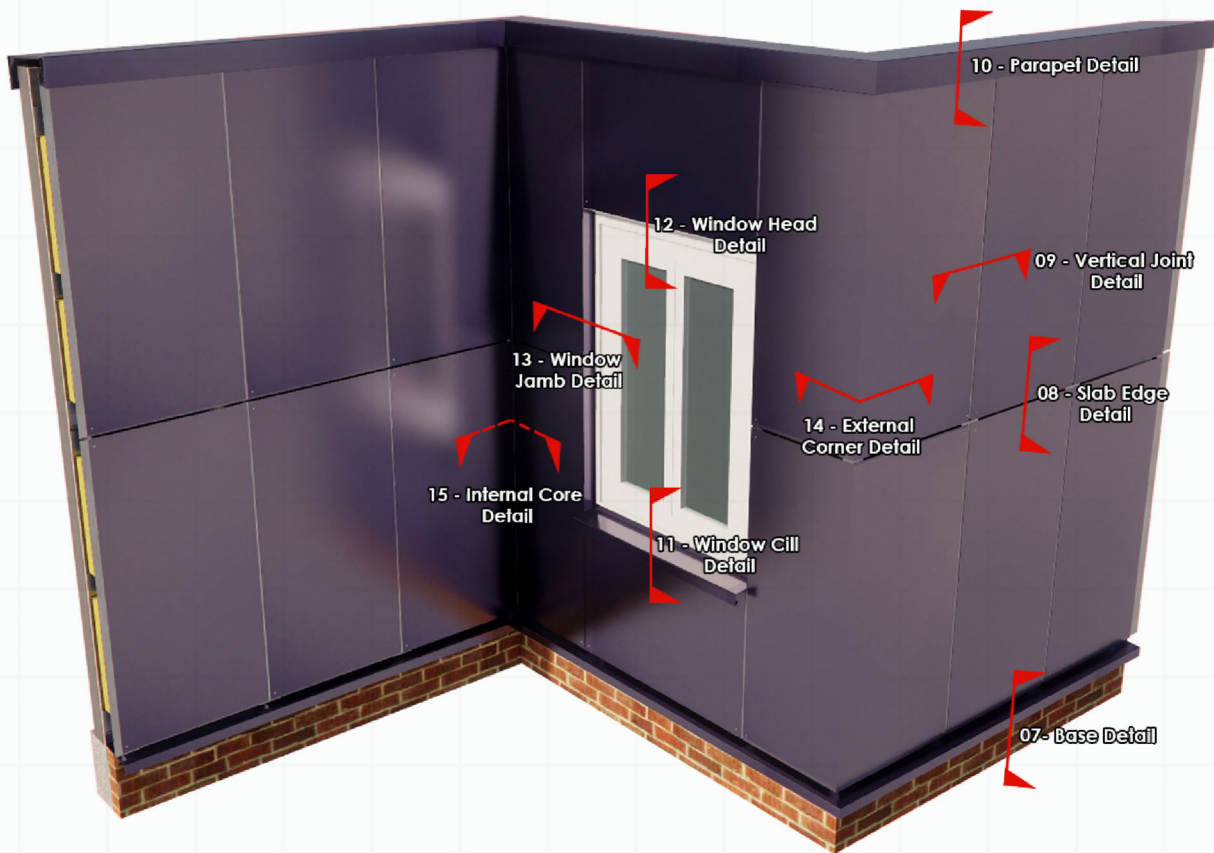
▲ TYPICAL DETAILS

VITRADUAL RIVET FIX

Open Joints



A1 NON-COMBUSTIBLE
BS EN 13501-01



INDICATIVE ASSEMBLY · NOT TO SCALE

DETAIL KEY

07	Base Detail	10	Parapet Detail	13	Window Jamb Detail
08	Slab Edge Detail	11	Window Cill Detail	14	External Corner Detail
09	Vertical Joint Detail	12	Window Head Detail	15	Internal Core Detail

DRAWING TITLE

VitraDual Rivet Fix Open Joints – 3D Visual

SCALE @ A4

NTS

DRAWING DATE

AUG 2026

DRAWN BY

RB

DISCLAIMER

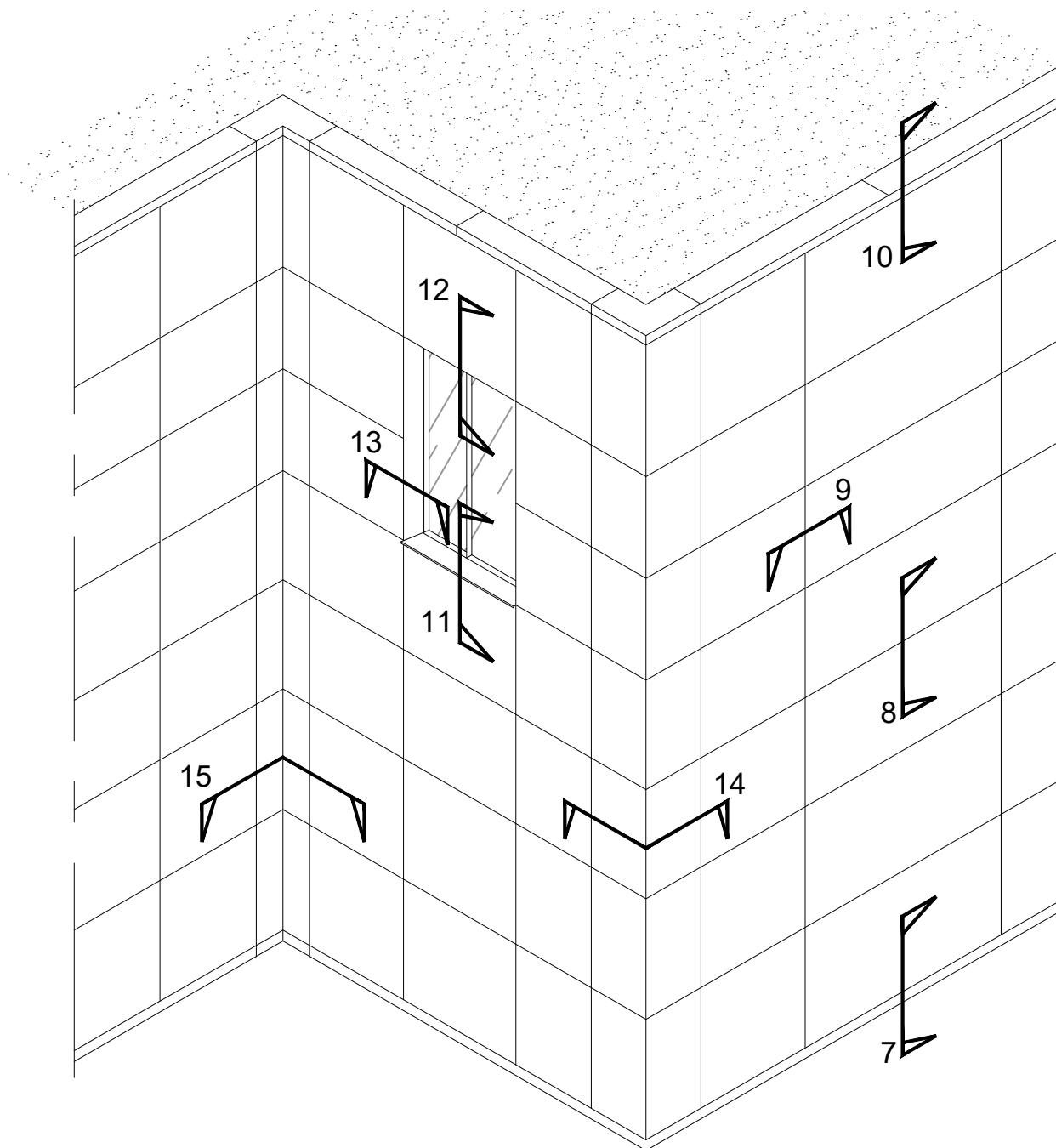
These details are limited to the generalised design specification for the products shown and are intended for use by a technically skilled person only – any use of the same is at their own discretion and risk.

Drawing file: VITRADUAL RIVET OPEN JOINT DRGS.dwg

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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

DETAIL KEY

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SCALE @ A4:

NTS

DRAWING NUMBER:

VRO-01

REVISION:

P1

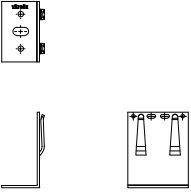
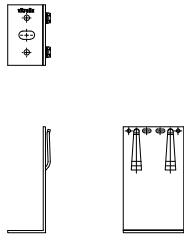
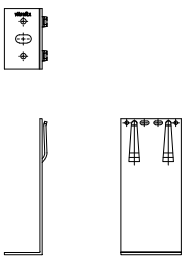
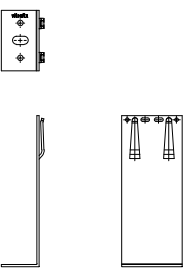
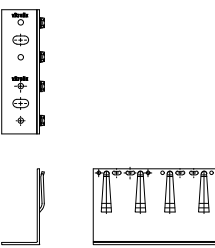
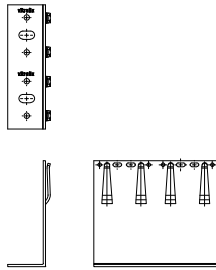
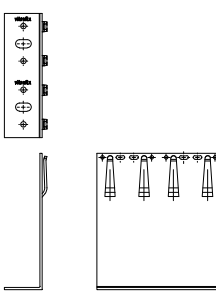
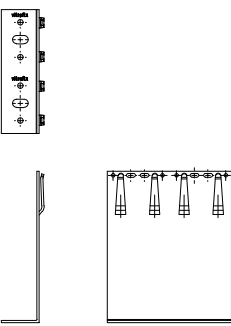
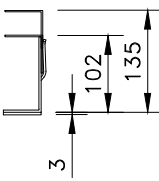
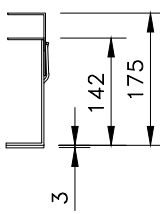
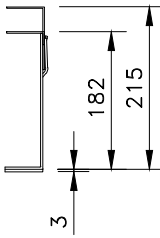
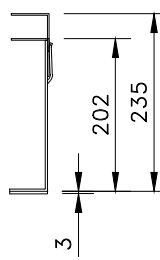
DRAWN BY:

RB

DRAWING DATE:

JUN 2026

ALUMINIUM & STAINLESS STEEL BRACKETS

 VF100SB 100 SINGLE BRACKET	 VF140SB 140 SINGLE BRACKET	 VF180SB 180 SINGLE BRACKET	 VF200SB 200 SINGLE BRACKET
 VF100DB 100 DOUBLE BRACKET	 VF140DB 140 DOUBLE BRACKET	 VF180DB 180 DOUBLE BRACKET	 VF200DB 200 DOUBLE BRACKET
 100 BRACKET	 140 BRACKET	 180 BRACKET	 200 BRACKET

ALUMINIUM AND STAINLESS STEEL VARIANTS AVAILABLE OF EACH COMPONENT

 3mm PVC Isolation Pad	 3mm PVC Isolation Pad	 VF1-L RAIL	 VF2U9015	 VF2U17415	 VFSD4.825/A4
		 VF1-T RAIL	 VF2TH8415	 VF2TH16815	 VFSD5.538/A4
					 RIVET VFR4



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

VITRAFIX
STD COMPONENTS

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SCALE @ A4:

1:10

DRAWING NUMBER:

VRO-02

REVISION:

P1

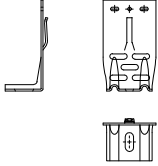
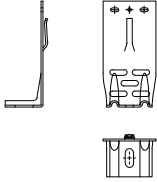
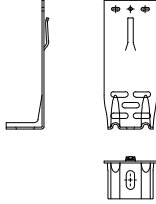
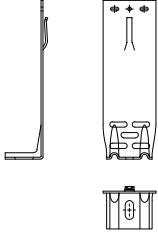
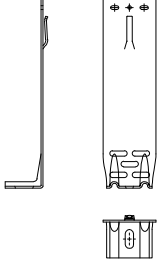
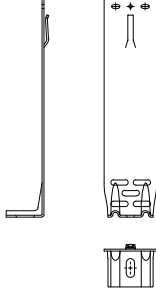
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RB

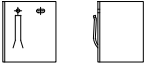
DRAWING DATE:

JUN 2026

CARBON STEEL MAGNELIS BRACKETS

 VFM120SB 120 SINGLE BRACKET	 VFM140SB 140 SINGLE BRACKET	 VFM170SB 170 SINGLE BRACKET
 VFM210SB 210 SINGLE BRACKET	 VFM250SB 250 SINGLE BRACKET	 VFM290SB 290 SINGLE BRACKET

STEEL PROFILES

						
VFM6410	VFM6510	VFM6415	VFM6515	VFM10615	VFM-OMEGA 1	VFM-C PROFILE 15
						
VFM-ADAPTOR	VFM6425	VFM6525	VFM10625	VFM61125	VFM-C PROFILE 25	

ALUMINIUM PROFILES

						
VALCAN L/K1	VALCAN T1	VALCAN T2	VALCAN T3	VALCAN T4	VF2U9015	VF2U17415
						
					VF2TH8415	VF2TH16815

PVC ISOLATION PADS

			
3mm PVC Isolation Pad VMF70	3mm PVC Isolation Pad VMF130	3mm PVC Isolation Pad VMF160	3mm PVC Isolation Pad VMF190



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

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SCALE @ A4:

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DRAWING NUMBER:

VRO-03

REVISION:

P1

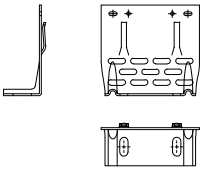
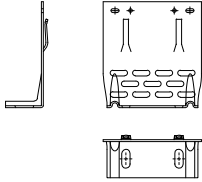
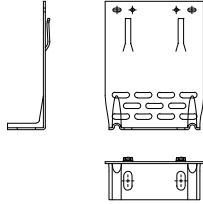
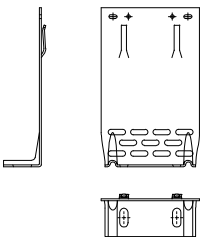
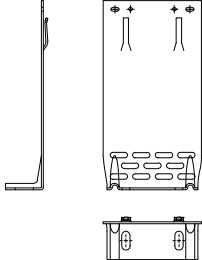
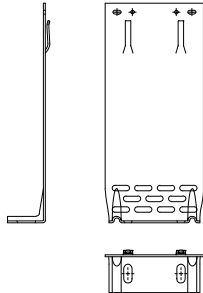
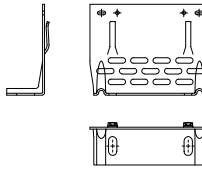
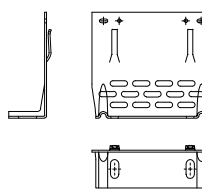
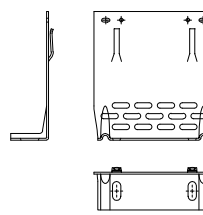
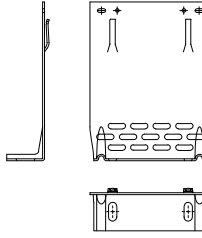
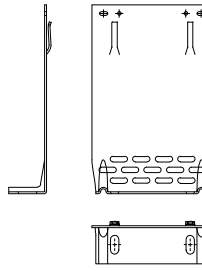
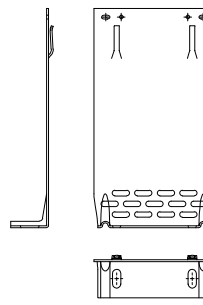
DRAWN BY:

RB

DRAWING DATE:

JUN 2026

CARBON STEEL MAGNELIS BRACKETS

 VFM130/120DB 130/120 DOUBLE BRACKET	 VFM130/140DB 130/140 DOUBLE BRACKET	 VFM130/170DB 130/170 DOUBLE BRACKET
 VFM130/210DB 130/210 DOUBLE BRACKET	 VFM130/250DB 130/250 DOUBLE BRACKET	 VFM130/290DB 130/290 DOUBLE BRACKET
 VFM160/120DB 160/120 DOUBLE BRACKET	 VFM160/140DB 160/140 DOUBLE BRACKET	 VFM160/170DB 160/170 DOUBLE BRACKET
 VFM160/210DB 160/210 DOUBLE BRACKET	 VFM160/250DB 160/250 DOUBLE BRACKET	 VFM160/290DB 160/290 DOUBLE BRACKET

SEE VRO-03 FOR PROFILE SECTIONS



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email: enquiries@valcan.co.uk

SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

VITRAFIX
STD COMPONENTS

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SCALE @ A4:

1:10

DRAWING NUMBER:

VRO-04

REVISION:

P1

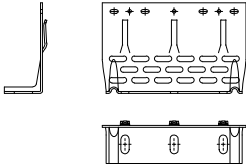
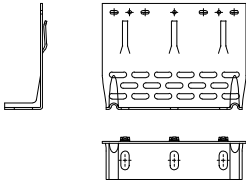
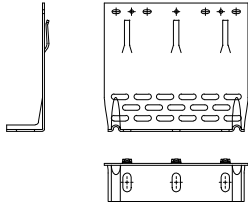
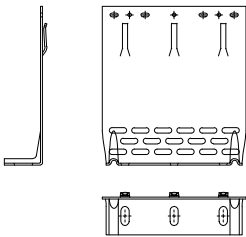
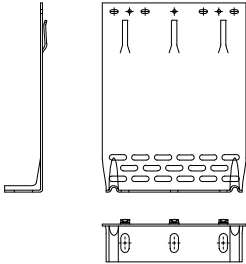
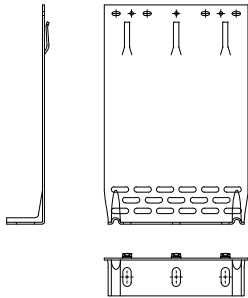
DRAWN BY:

RB

DRAWING DATE:

JUN 2026

CARBON STEEL MAGNELIS BRACKETS

 VFM120TB 120 TRIPLE BRACKET	 VFM140DTB 140 TRIPLE BRACKET	 VFM170TB 170 TRIPLE BRACKET
 VFM210TB 210 TRIPLE BRACKET	 VFM250TB 250 TRIPLE BRACKET	 VFM290TB 290 TRIPLE BRACKET

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SYSTEM/PRODUCT
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DRG TITLE
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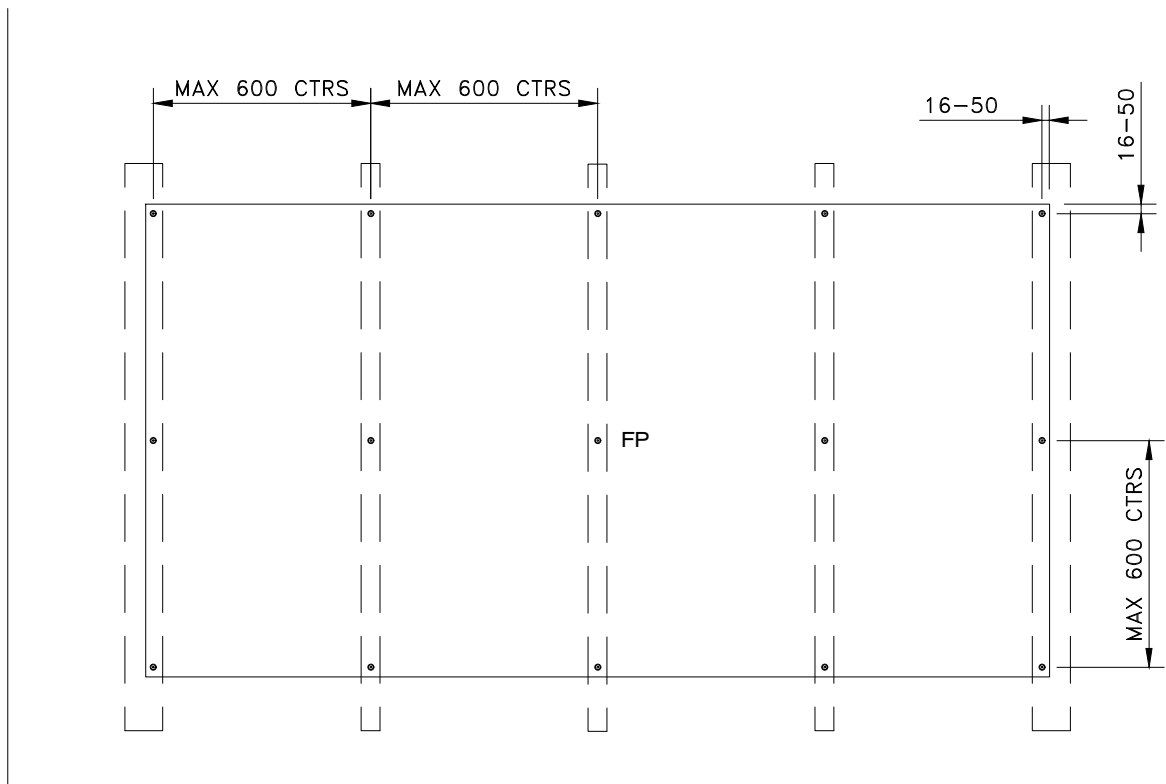
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DRAWING NUMBER:
VRO-05

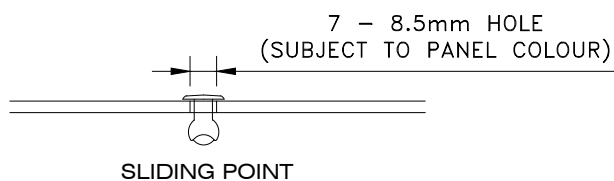
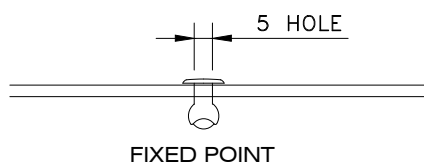
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RB

REVISION:
P1

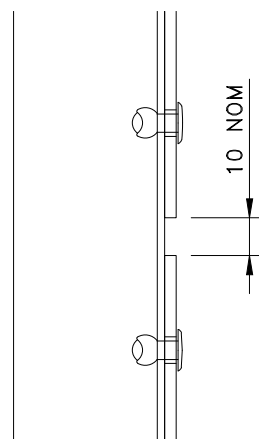
DRAWING DATE:
JUN 2026



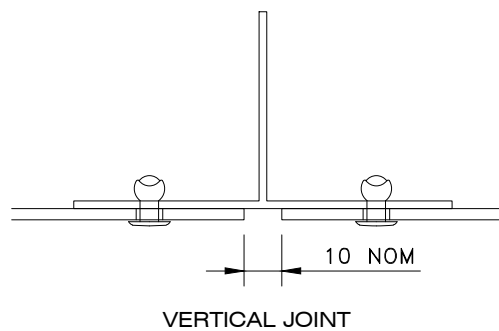
MINIMUM 1 No FIXED POINT (FP) PER PANEL
IN CENTRAL LOCATION
ALL OTHER FIXINGS SLIDING POINT



VITRADUAL RIVET VFR4 - 4.8X20mm A4C
VITRAFIX 4.8X20mm
S/STEEL A4 GRADE RIVET
5-13mm GRIP RANGE



SUPPORT RAIL LENGTHS/JOINTS NEED TO
TAKE INTO ACCOUNT RAIL THERMAL
EXPANSION, MOVEMENT JOINTS AND
BUILDING STRUCTURAL DEFLECTION



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

PANEL FIXING
SPECIFICATION

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SCALE @ A4:

1:20 & 1:1

DRAWING NUMBER:

VRO-06

REVISION:

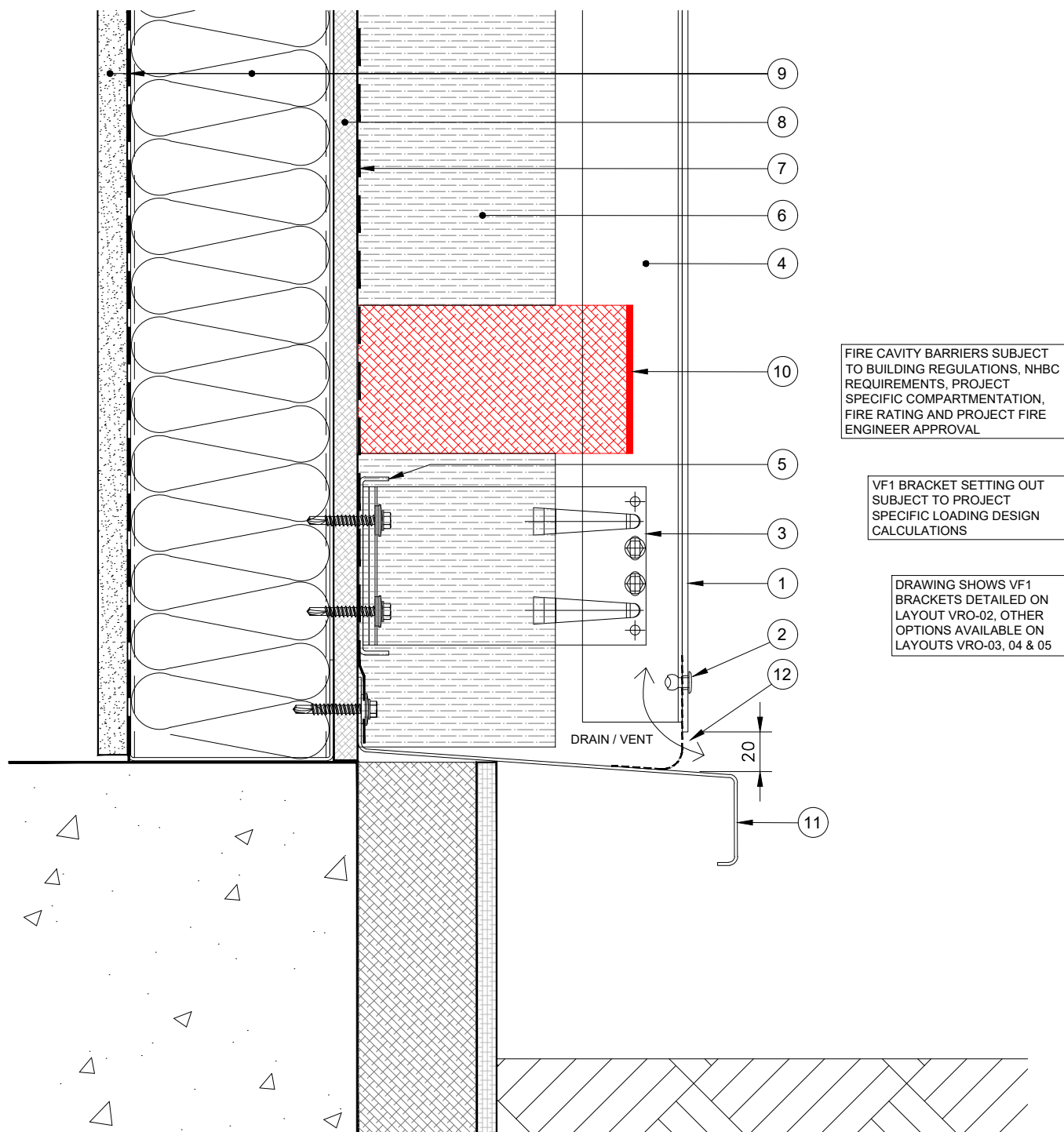
P1

DRAWN BY:

RB

DRAWING DATE:

JUN 2026



- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix rivet (coloured to match panel) | 7. Breather membrane (project dependant) | 12. Insect mesh |
| 3. Vitrafix VF1 aluminium helping hand bracket with separate thermal isolation pad (bracket size is project dependant) | 8. Sheathing board (project dependant) | 13. Aluminium coping |
| 4. VF1 vertical L or T rail | 9. Substrate, additional insulation, vapour barrier and internal finishes (project dependant) | 14. Waterproofing membrane |
| 5. VF2 Channel or top hat if required | 10. Fire cavity barrier (project dependant) | 15. Optional window check flashing |
| | | 16. Aluminium support angle |

Note: All fixings, insulation, flashings, copings and membranes shown are for guidance only and need to be determined for each individual project



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

BASE DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-07

REVISION:

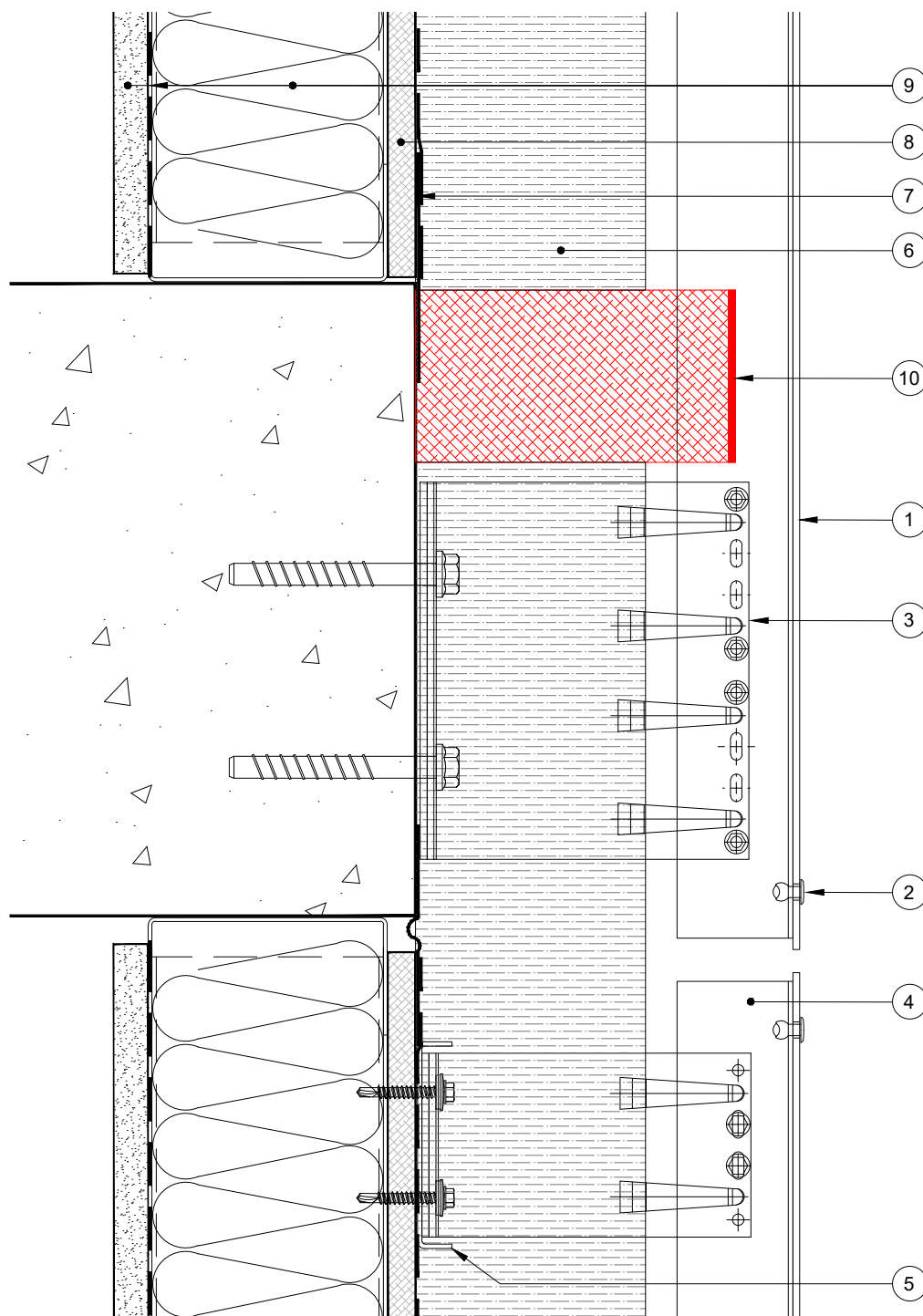
P1

DRAWN BY:

RB

DRAWING DATE:

JUN 2026



FIRE CAVITY BARRIERS SUBJECT TO BUILDING REGULATIONS, NHBC REQUIREMENTS, PROJECT SPECIFIC COMPARTMENTATION, FIRE RATING AND PROJECT FIRE ENGINEER APPROVAL

VF1 BRACKET SETTING OUT SUBJECT TO PROJECT SPECIFIC LOADING DESIGN CALCULATIONS

PANEL AND SUPPORT RAIL JOINTS TO BE CONSIDERED IN RELATION TO ANY PROJECT DEPENDANT MOVEMENT JOINTS AND STRUCTURAL DEFLECTION ALLOWANCE

DRAWING SHOWS VF1 BRACKETS DETAILED ON LAYOUT VRO-02, OTHER OPTIONS AVAILABLE ON LAYOUTS VRO-03, 04 & 05

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix rivet (coloured to match panel) | 7. Breather membrane (project dependant) | 12. Insect mesh |
| 3. Vitrafix VF1 aluminium helping hand bracket with separate thermal isolation pad (bracket size is project dependant) | 8. Sheathing board (project dependant) | 13. Aluminium coping |
| 4. VF1 vertical L or T rail | 9. Substrate, additional insulation, vapour barrier and internal finishes (project dependant) | 14. Waterproofing membrane |
| 5. VF2 Channel or top hat if required | 10. Fire cavity barrier (project dependant) | 15. Optional window check flashing |
| | | 16. Aluminium support angle |

Note: All fixings, insulation, flashings, copings and membranes shown are for guidance only and need to be determined for each individual project



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

SLAB EDGE DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-08

REVISION:

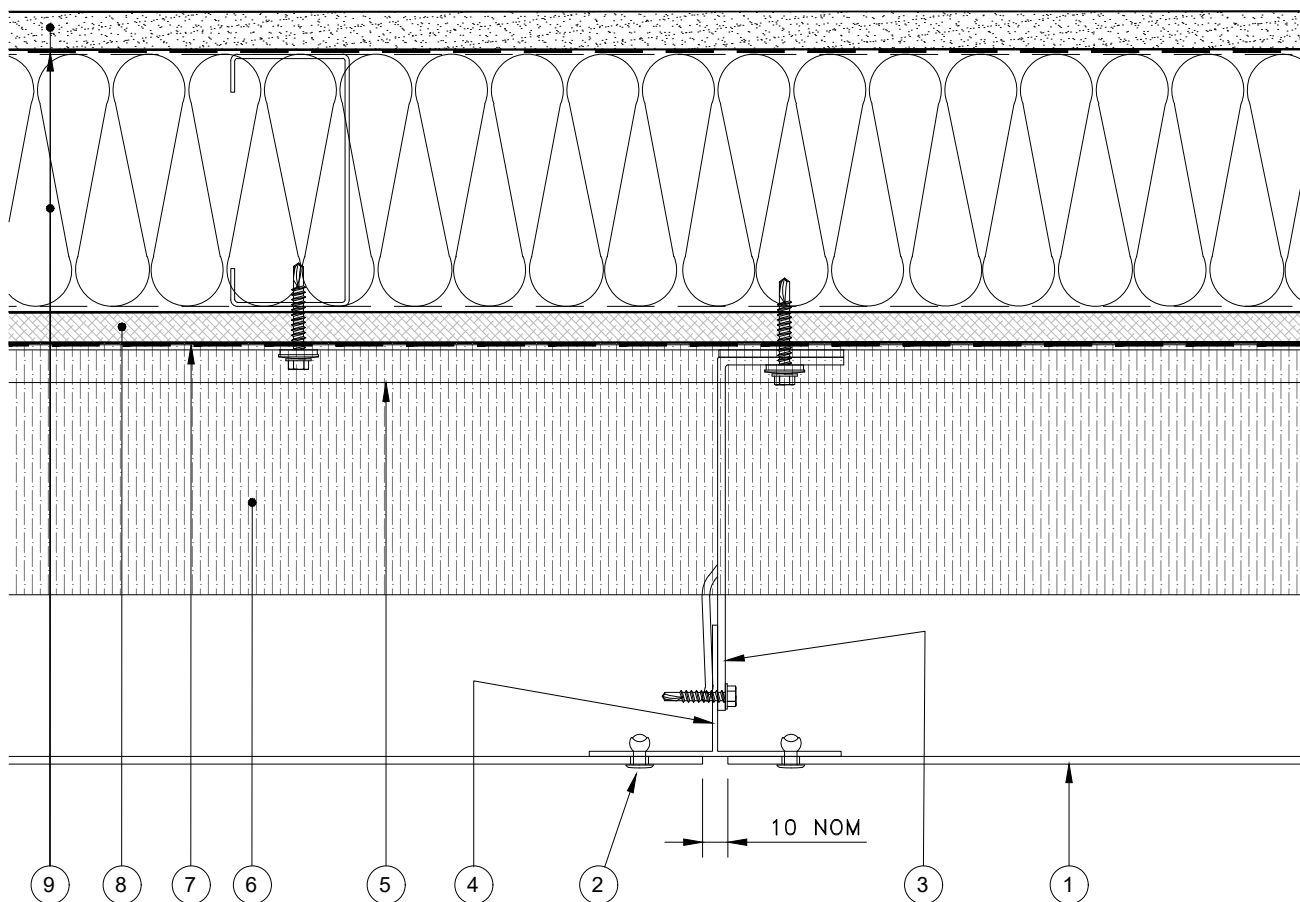
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DRAWN BY:

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DRAWING DATE:

JUN 2026



CONSIDERATION FOR
COLOUR OF SUPPORT RAIL
VISIBLE THROUGH JOINT

DRAWING SHOWS VF1
BRACKETS DETAILED ON
LAYOUT VRO-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VRO-03, 04 & 05

VF1 BRACKET SETTING OUT
SUBJECT TO PROJECT
SPECIFIC LOADING DESIGN
CALCULATIONS

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix rivet (coloured to match panel) | 7. Breather membrane (project dependant) | 12. Insect mesh |
| 3. Vitrafix VF1 aluminium helping hand bracket with separate thermal isolation pad (bracket size is project dependant) | 8. Sheathing board (project dependant) | 13. Aluminium coping |
| 4. VF1 vertical L or T rail | 9. Substrate, additional insulation, vapour barrier and internal finishes (project dependant) | 14. Waterproofing membrane |
| 5. VF2 Channel or top hat if required | 10. Fire cavity barrier (project dependant) | 15. Optional window check flashing |
| | | 16. Aluminium support angle |

Note: All fixings, insulation, flashings, copings and membranes shown are for guidance only and need to be determined for each individual project



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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

VERTICAL JOINT DETAIL

THESE DETAILS ARE LIMITED TO THE
GENERALISED DESIGN SPECIFICATION
FOR THE PRODUCTS SHOWN AND ARE
INTENDED FOR USE BY A TECHNICALLY
SKILLED PERSON ONLY - ANY USE OF
THE SAME IS AT THEIR OWN
DISCRETION AND RISK.

SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-09

REVISION:

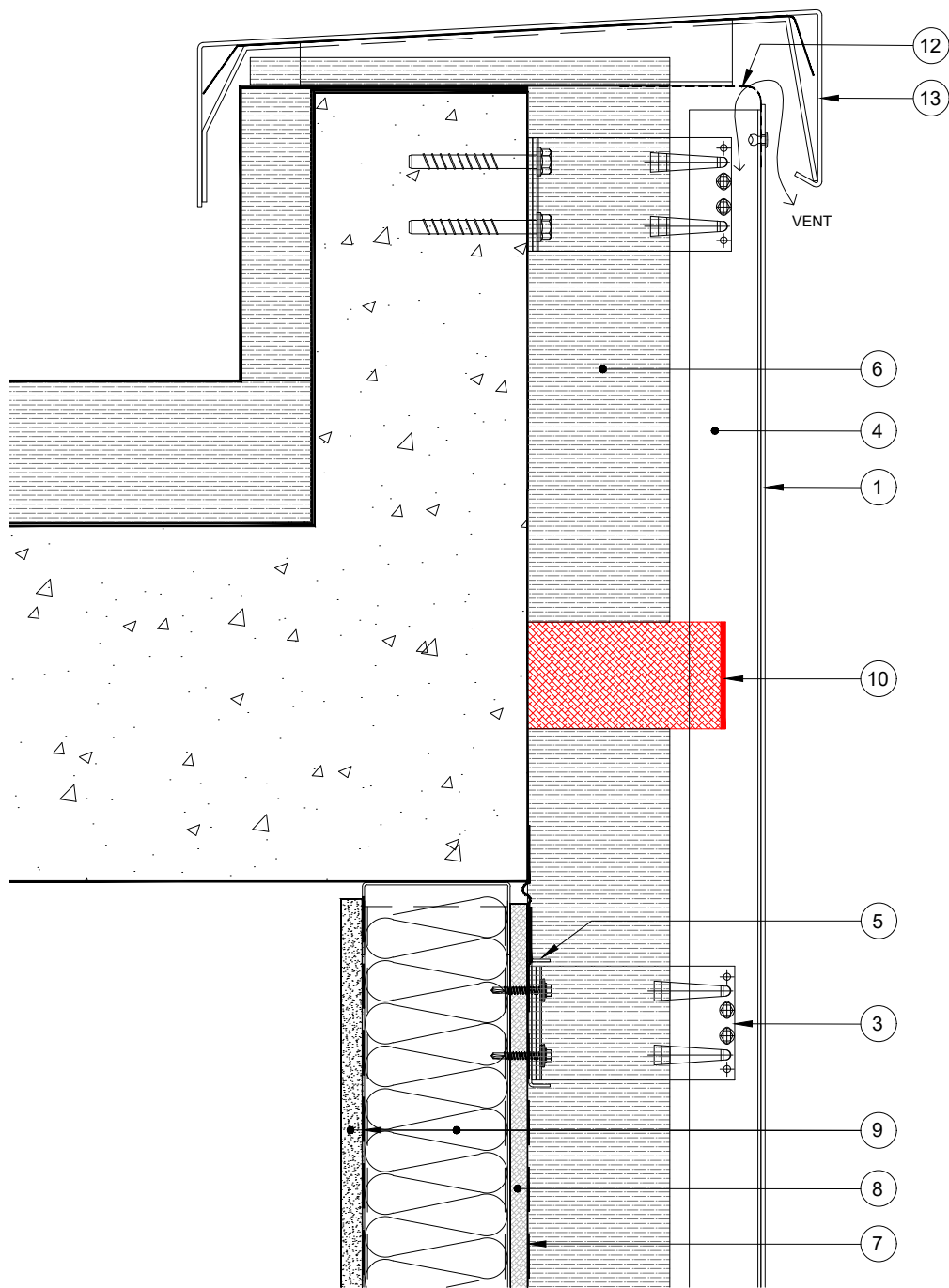
P1

DRAWN BY:

RB

DRAWING DATE:

JUN 2026



FIRE CAVITY BARRIERS SUBJECT TO BUILDING REGULATIONS, NHBC REQUIREMENTS, PROJECT SPECIFIC COMPARTMENTATION, FIRE RATING AND PROJECT FIRE ENGINEER APPROVAL

VF1 BRACKET SETTING OUT SUBJECT TO PROJECT SPECIFIC LOADING DESIGN CALCULATIONS

DRAWING SHOWS VF1 BRACKETS DETAILED ON LAYOUT VRO-02, OTHER OPTIONS AVAILABLE ON LAYOUTS VRO-03, 04 & 05

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix rivet (coloured to match panel) | 7. Breather membrane (project dependant) | 12. Insect mesh |
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| | | 16. Aluminium support angle |

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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

PARAPET DETAIL

THESE DETAILS ARE LIMITED TO THE GENERALISED DESIGN SPECIFICATION FOR THE PRODUCTS SHOWN AND ARE INTENDED FOR USE BY A TECHNICALLY SKILLED PERSON ONLY - ANY USE OF THE SAME IS AT THEIR OWN DISCRETION AND RISK.

SCALE @ A4:

1:5

DRAWING NUMBER:

VRO-10

REVISION:

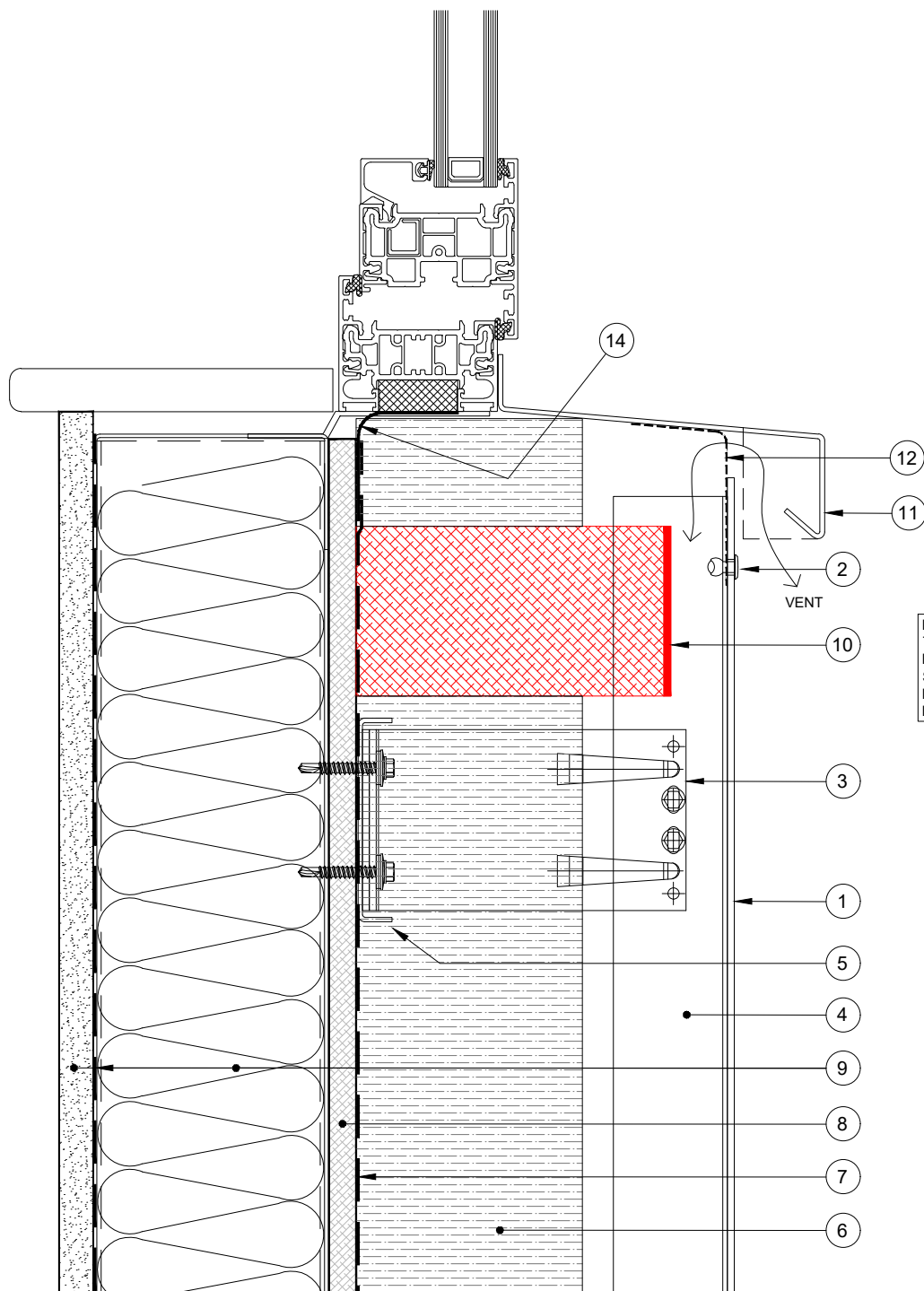
P1

DRAWN BY:

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DRAWING DATE:

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FIRE CAVITY BARRIERS SUBJECT TO BUILDING REGULATIONS, NHBC REQUIREMENTS, PROJECT SPECIFIC COMPARTMENTATION, FIRE RATING AND PROJECT FIRE ENGINEER APPROVAL

VF1 BRACKET SETTING OUT SUBJECT TO PROJECT SPECIFIC LOADING DESIGN CALCULATIONS

DRAWING SHOWS VF1 BRACKETS DETAILED ON LAYOUT VRO-02, OTHER OPTIONS AVAILABLE ON LAYOUTS VRO-03, 04 & 05

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
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| 5. VF2 Channel or top hat if required | 10. Fire cavity barrier (project dependant) | 15. Optional window check flashing |
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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

WINDOW CILL DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-11

REVISION:

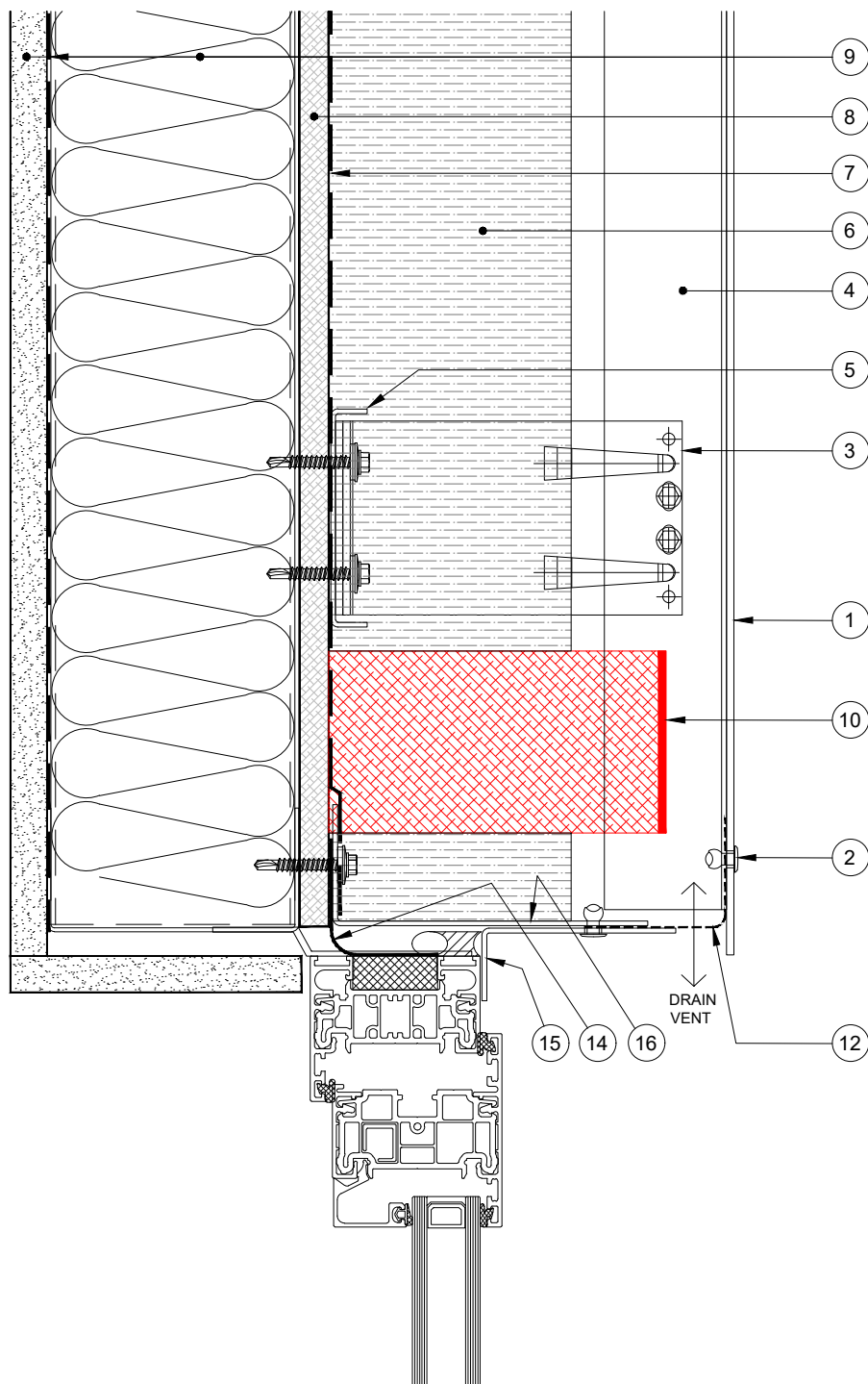
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DRAWN BY:

RB

DRAWING DATE:

JUN 2026



VF1 BRACKET SETTING OUT
SUBJECT TO PROJECT
SPECIFIC LOADING DESIGN
CALCULATIONS

FIRE CAVITY BARRIERS SUBJECT
TO BUILDING REGULATIONS, NHBC
REQUIREMENTS, PROJECT
SPECIFIC COMPARTMENTATION,
FIRE RATING AND PROJECT FIRE
ENGINEER APPROVAL

DRAWING SHOWS VF1
BRACKETS DETAILED ON
LAYOUT VRO-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VRO-03, 04 & 05

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

WINDOW HEAD DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-12

REVISION:

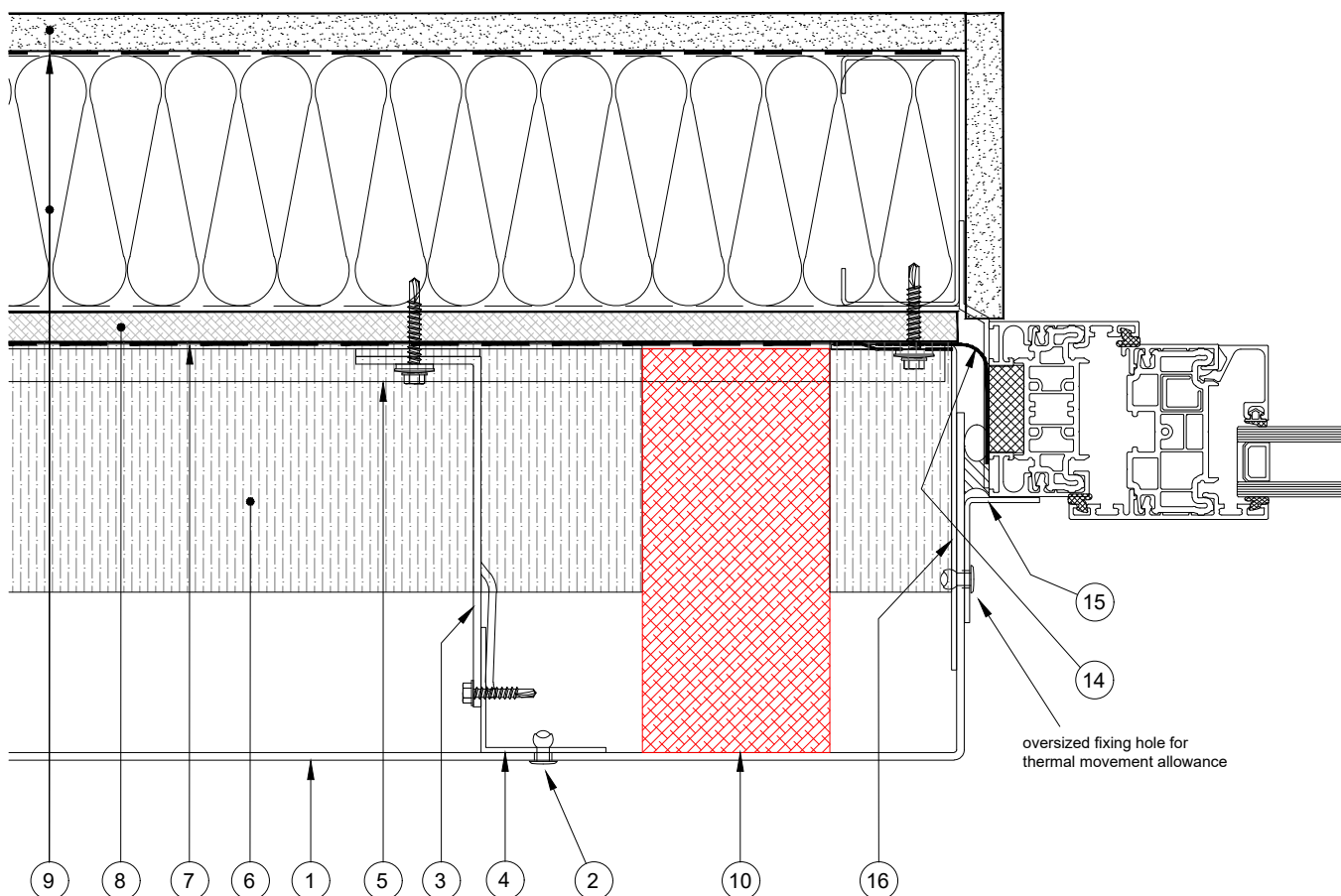
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DRAWING DATE:

JUN 2026



VF1 BRACKET SETTING OUT
SUBJECT TO PROJECT
SPECIFIC LOADING DESIGN
CALCULATIONS

DRAWING SHOWS VF1
BRACKETS DETAILED ON
LAYOUT VRO-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VRO-03, 04 & 05

FIRE CAVITY BARRIERS SUBJECT
TO BUILDING REGULATIONS, NHBC
REQUIREMENTS, PROJECT
SPECIFIC COMPARTMENTATION,
FIRE RATING AND PROJECT FIRE
ENGINEER APPROVAL

- | | | |
|--|---|------------------------------------|
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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

WINDOW JAMB DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VRO-13

REVISION:

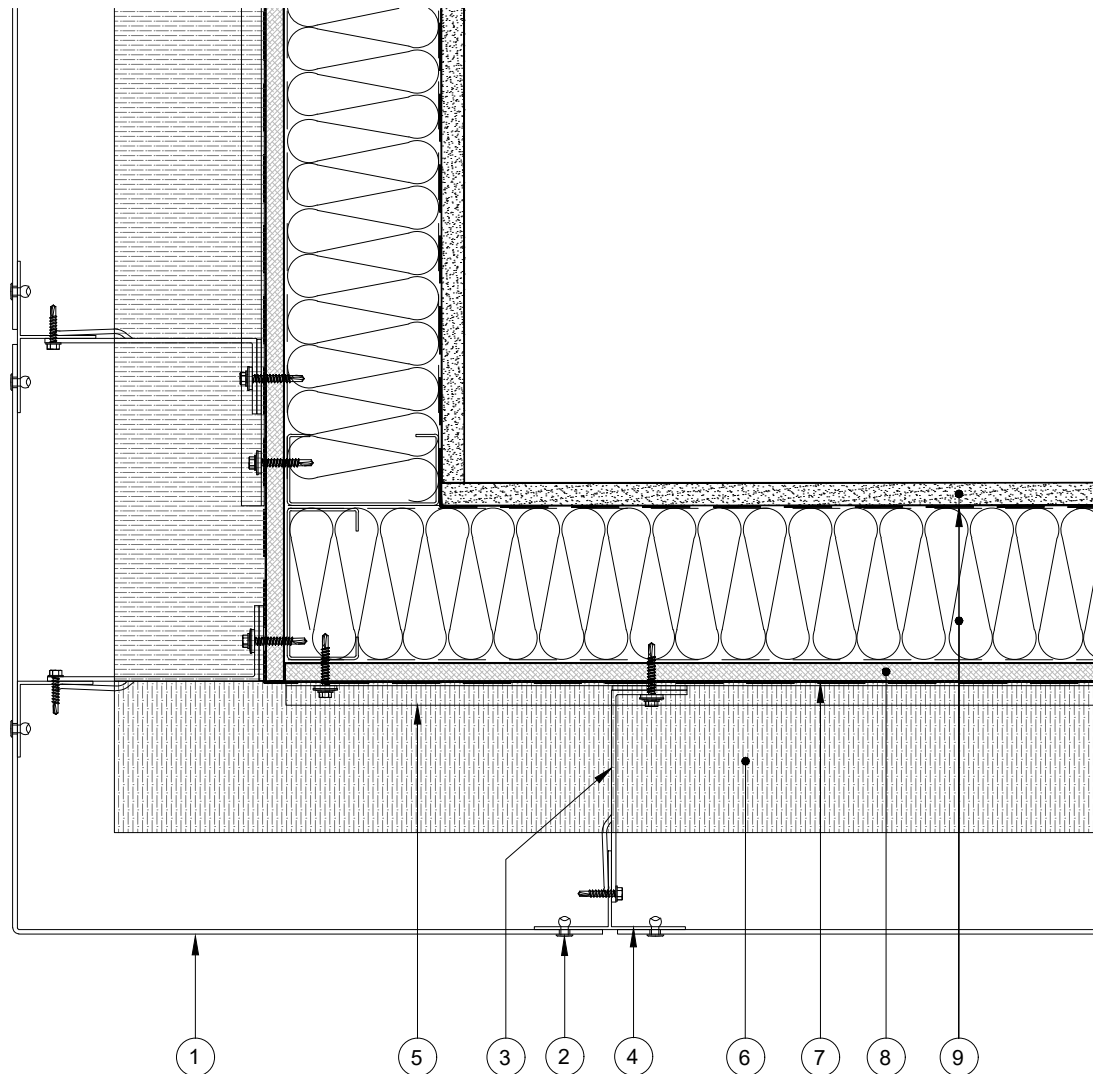
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DRAWING DATE:

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CONSIDERATION FOR
COLOUR OF SUPPORT RAIL
VISIBLE THROUGH JOINT

VF1 BRACKET SETTING OUT
SUBJECT TO PROJECT
SPECIFIC LOADING DESIGN
CALCULATIONS

DRAWING SHOWS VF1
BRACKETS DETAILED ON
LAYOUT VRO-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VRO-03, 04 & 05

FIRE CAVITY BARRIERS SUBJECT
TO BUILDING REGULATIONS, NHBC
REQUIREMENTS, PROJECT
SPECIFIC COMPARTMENTATION,
FIRE RATING AND PROJECT FIRE
ENGINEER APPROVAL

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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

EXTERNAL CORNER DETAIL

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SCALE @ A4:

1:5

DRAWING NUMBER:

VRO-14

REVISION:

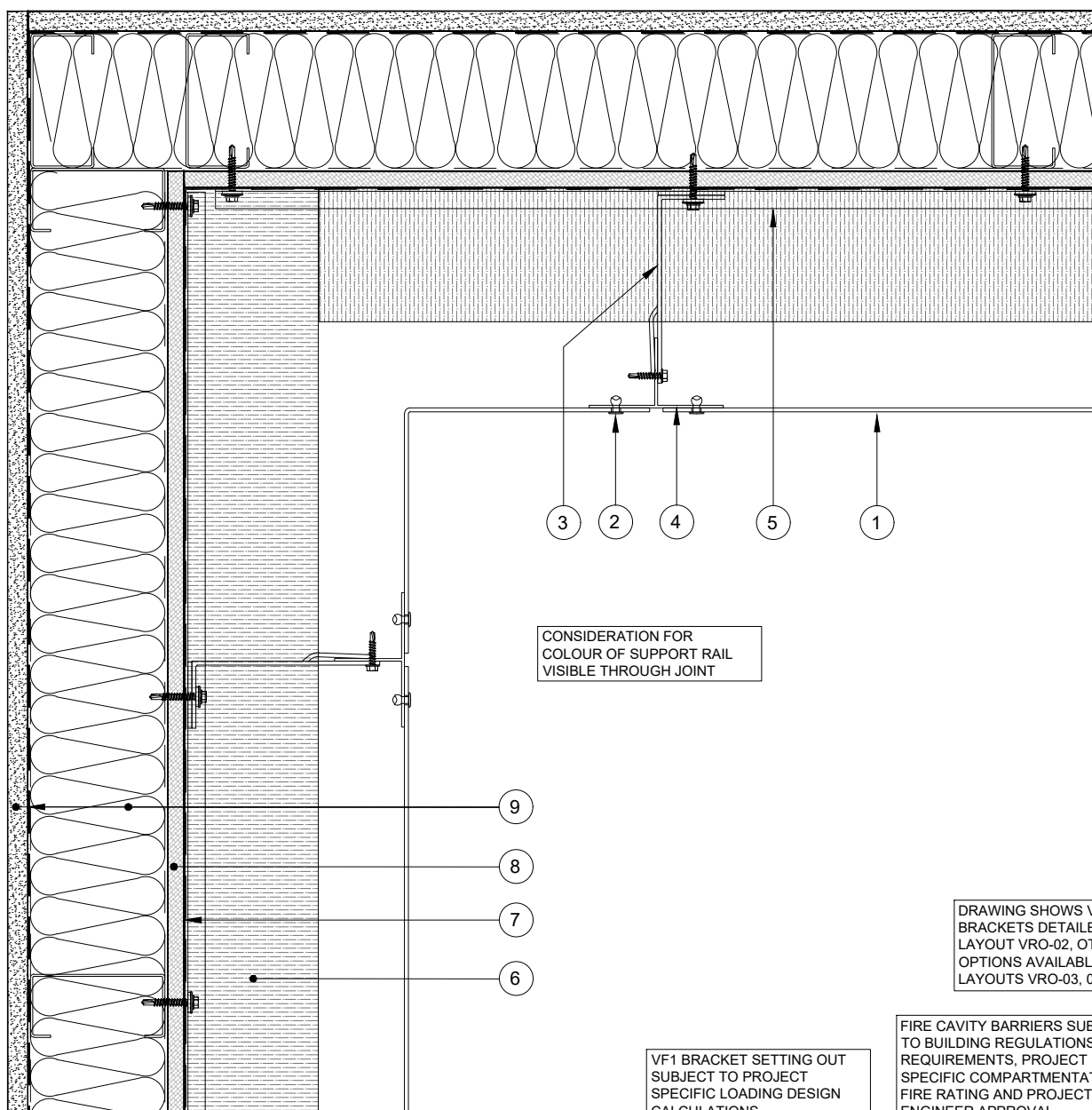
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RB

DRAWING DATE:

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- | | | |
|--|---|------------------------------------|
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SYSTEM/PRODUCT

VITRADUAL RIVET FIX open joints

DRG TITLE

EXTERNAL CORNER DETAIL

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SCALE @ A4:

1:5

DRAWING NUMBER:

VRO-15

REVISION:

P1

DRAWN BY:

RB

DRAWING DATE:

JUN 2026

▲ HOW WE SUPPORT YOU

TECHNICAL SUPPORT BEYOND PRACTICAL COMPLETION

We work alongside architects, contractors and installers from early specification through to installation – and stay with the building afterwards, supporting handover records, maintenance queries and remedial work for the life of the façade.

01

CPD Standards Office accredited seminars

Delivered in your office or online, covering rainscreen fire performance, A1/A2 classification and system selection.

03

Design support

Façade layouts, panel setting-out and interface resolution worked through with our in-house technical team.

05

Specification documents

NBS-ready clauses, datasheets and test evidence to support specification and building control submission.

07

Fire classification reports

Full BS EN 13501-1 classification reports and BS 8414 / BR 135 test evidence for the systems you specify.

02

Toolbox talks

On-site briefings for install teams covering handling, setting out, fixing and joint tolerances.

04

Technical & architectural CAD drawings

Now offered as part of the project: typical and project-specific technical and architectural CAD drawings, issued in DWG and PDF and tailored to your build-up.

06

Samples and mock-ups

Finish samples and support in developing visual and performance mock-ups ahead of installation.

08

Certificates

BBA, CCPI, EPD and warranty documentation issued on request for project records and building control.



Product information verified by the Code for Construction Product Information (CCPI).