

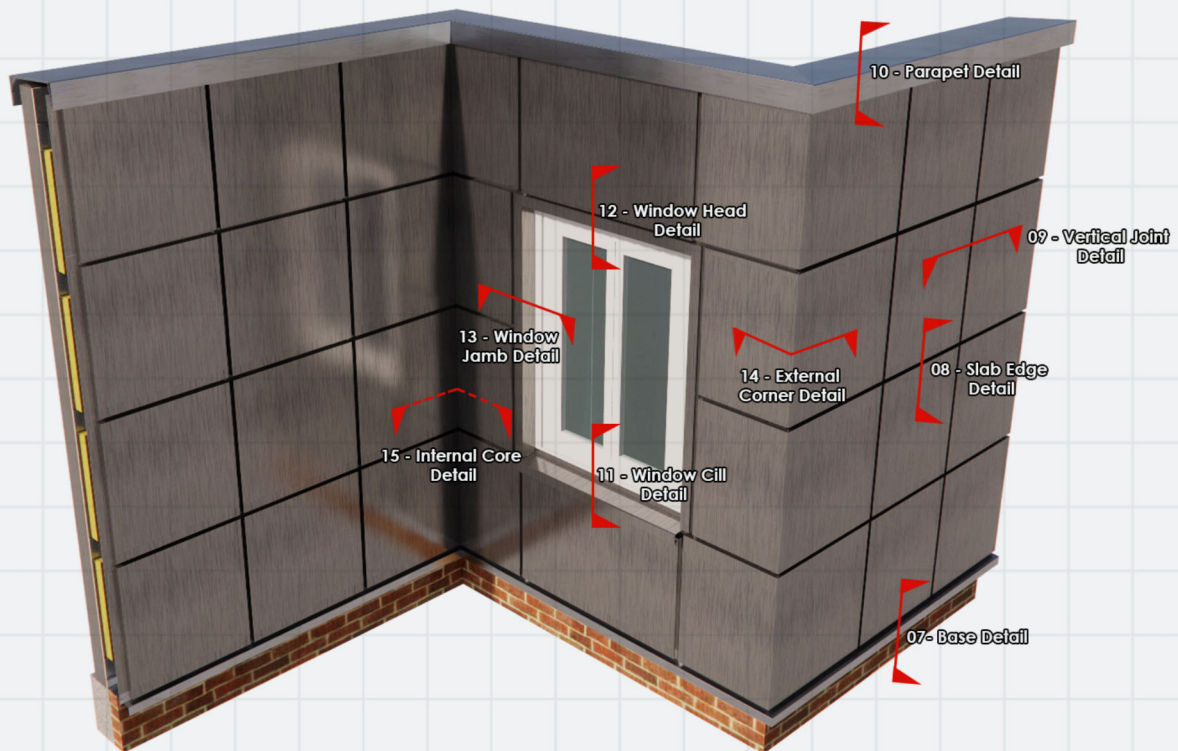
▲ TYPICAL DETAILS

VITRADUAL CASSETTE

Labyrinth Joint



A1 NON-COMBUSTIBLE · CWCT · BBA
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 Cassette Labyrinth Joints – 3D Visual

SCALE @ A4

NTS

DRAWING DATE

AUG 2026

DRAWN BY

Valcan CAD

DISCLAIMER

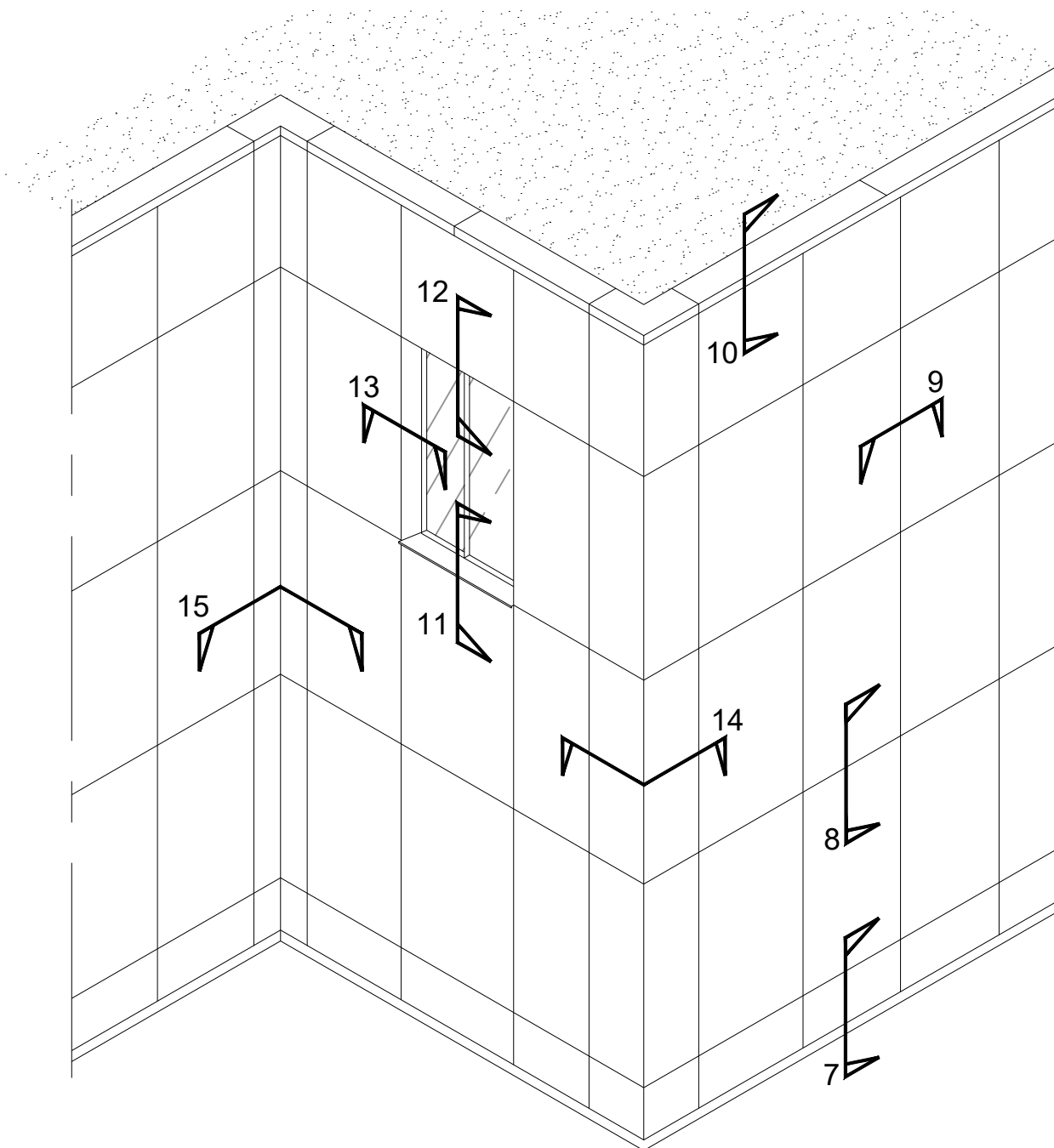
These details are limited to the generalised design specification for the products shown and are intended for use by a technically skilled person only – any use of the same is at their own discretion and risk.

Drawing file: VITRADUAL CASSETTE LABYRINTH JOINT DRGS.dwg

VALCAN LTD

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email: enquiries@valcan.co.uk

SYSTEM/PRODUCT

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

DETAIL KEY

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SCALE @ A4:

NTS

DRAWING NUMBER:

VCL-01

REVISION:

P1

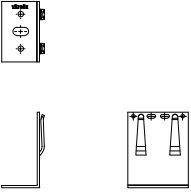
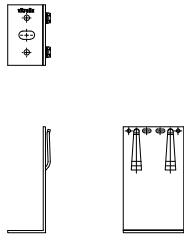
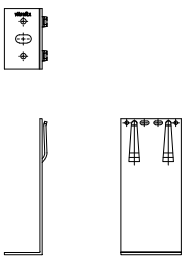
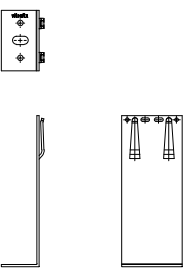
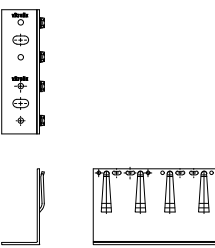
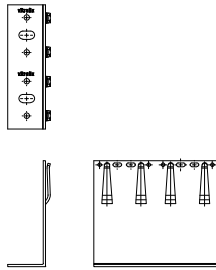
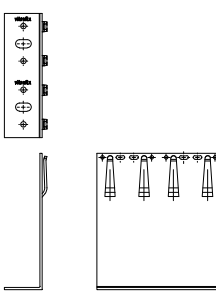
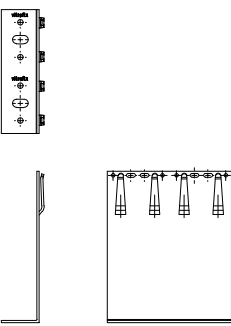
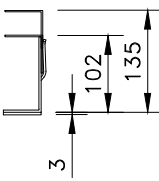
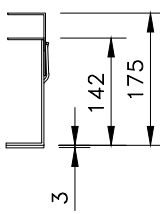
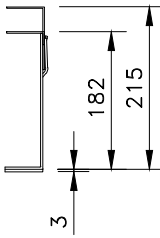
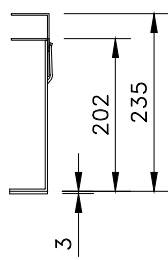
DRAWN BY:

RY

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 CASSETTE labyrinth joints

DRG TITLE

VITRAFIX
STD COMPONENTS

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SCALE @ A4:

1:10

DRAWING NUMBER:

VCL-02

REVISION:

P1

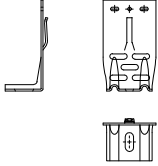
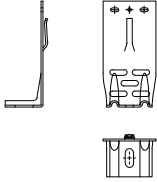
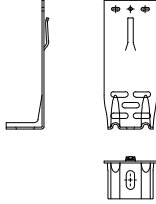
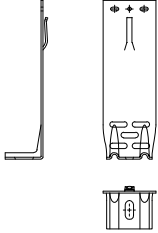
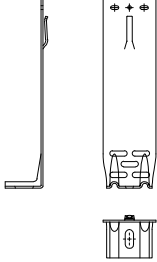
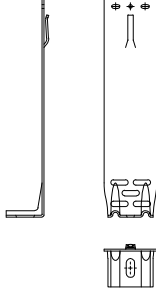
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RY

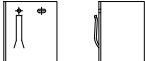
DRAWING DATE:

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

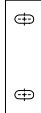
STEEL PROFILES

						
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 CASSETTE labyrinth joints

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SCALE @ A4:

1:10

DRAWING NUMBER:

VCL-03

REVISION:

P1

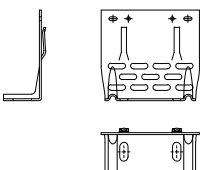
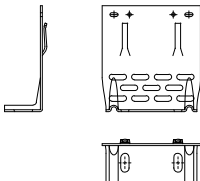
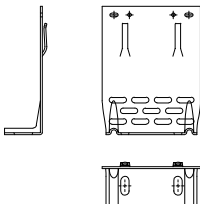
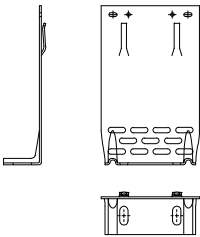
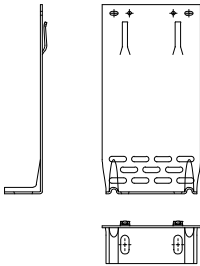
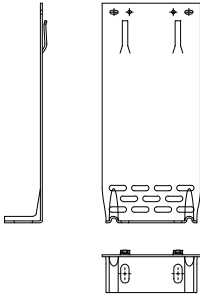
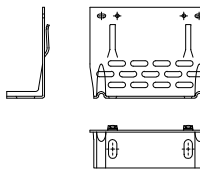
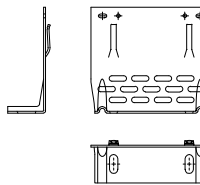
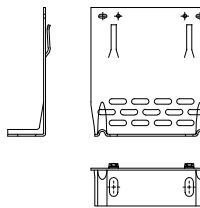
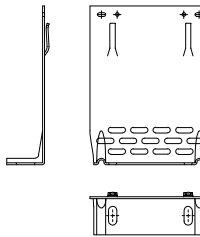
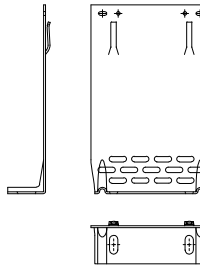
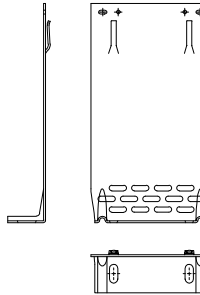
DRAWN BY:

RY

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 VCL-03 FOR PROFILE SECTIONS



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email: enquiries@valcan.co.uk

SYSTEM/PRODUCT

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

VITRAFIX
STD COMPONENTS

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SCALE @ A4:

1:10

DRAWING NUMBER:

VCL-04

REVISION:

P1

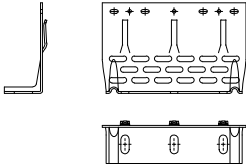
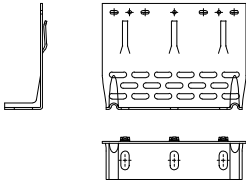
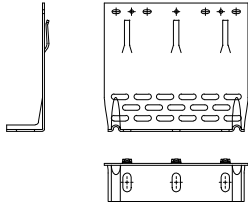
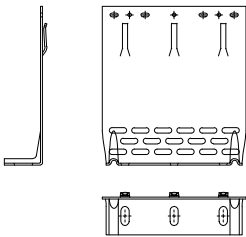
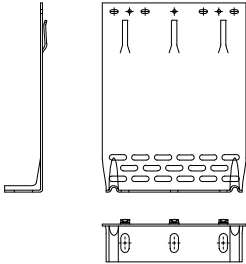
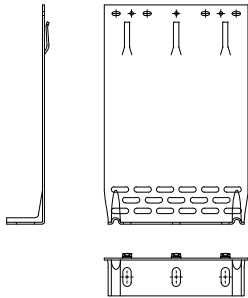
DRAWN BY:

RY

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	VITRADUAL CASSETTE labyrinth joints
DRG TITLE	VITRAFIX STD COMPONENTS

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1:10

DRAWING NUMBER:

VCL-05

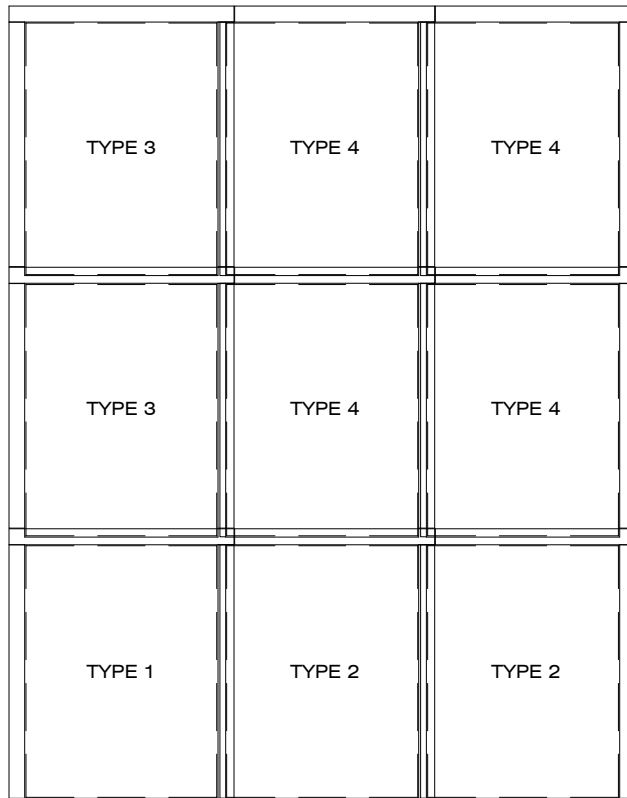
REVISION:

P1

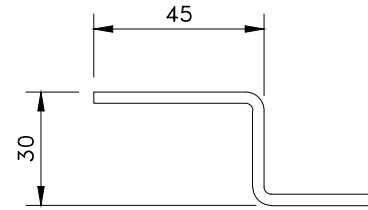
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DRAWING DATE:
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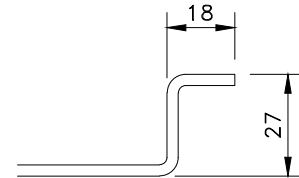
TYPICAL LAYOUT



TYPICAL PROFILES



UNDERLAP

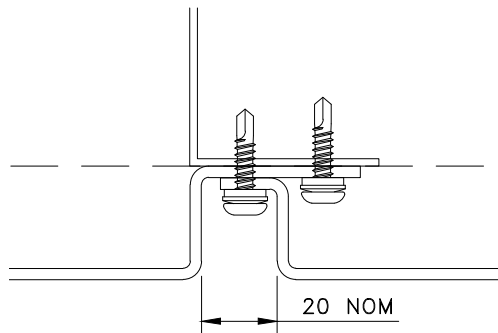
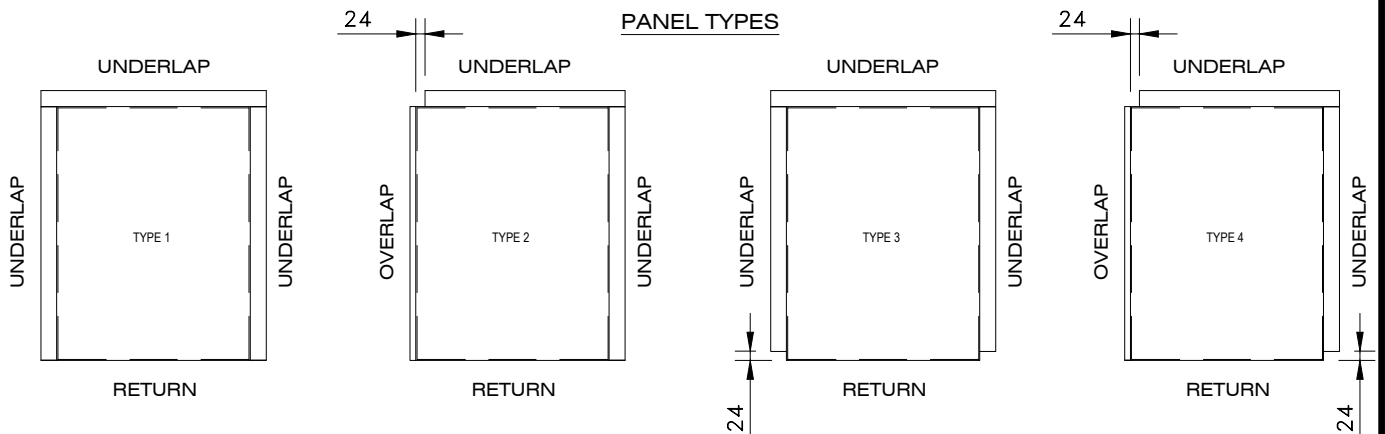


OVERLAP

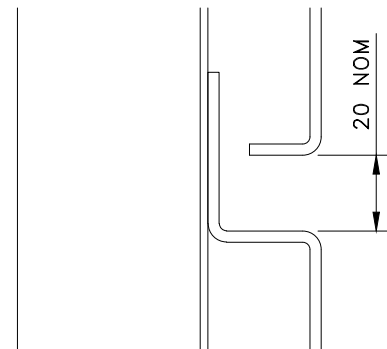


RETURN

PANEL TYPES



VERTICAL JOINT



HORIZONTAL JOINT

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 CASSETTE labyrinth joints

DRG TITLE

PANEL FIXING
SPECIFICATION

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SCALE @ A4:

1:20, 1:5 & 1:2

DRAWING NUMBER:

VCL-06

REVISION:

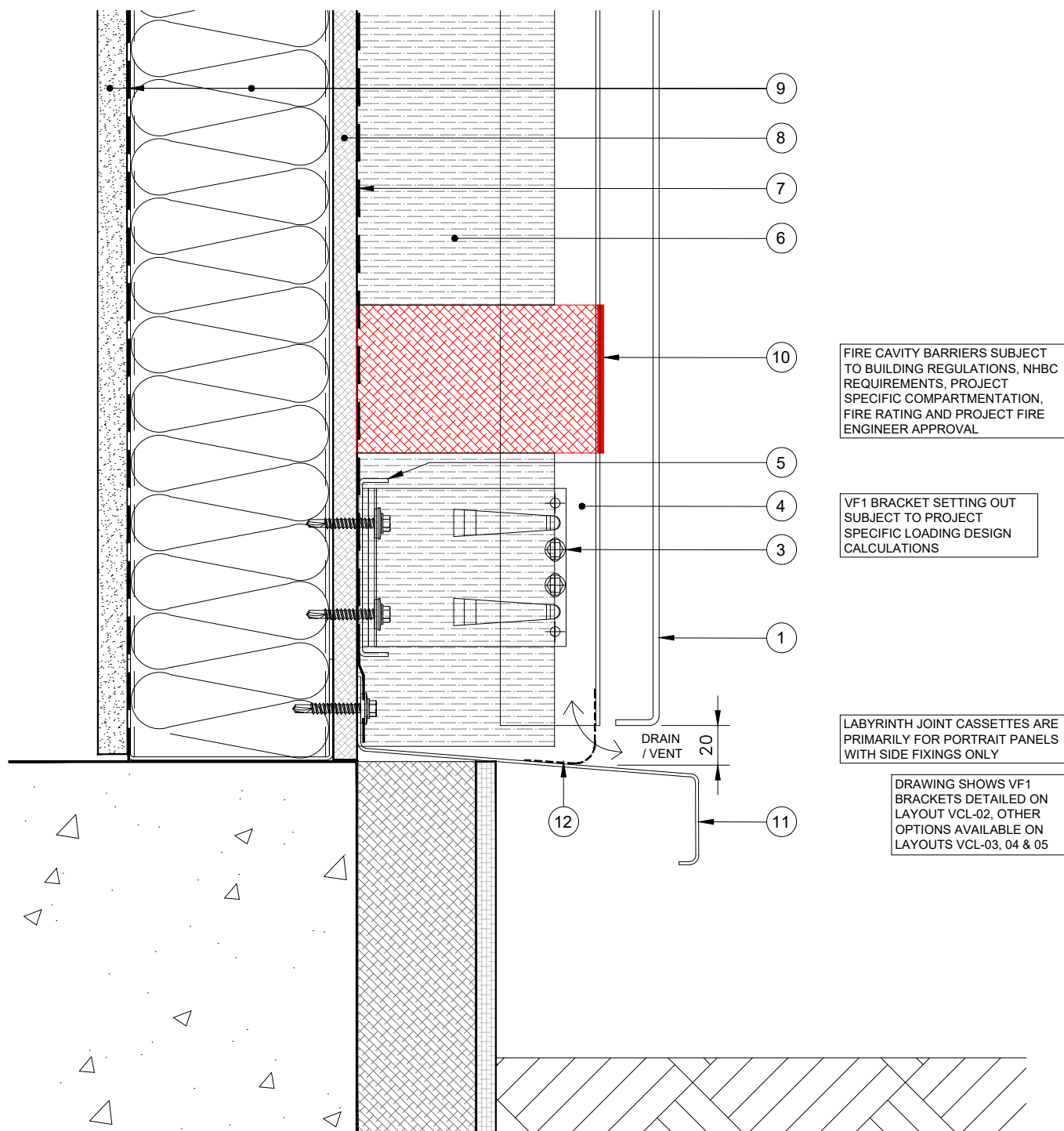
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DRAWN BY:

RY

DRAWING DATE:

JUN 2026



- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix fixing (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 |
| | | 17. Window head (perforated) |
| | | 18. Window Jamb |

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 CASSETTE labyrinth joints

DRG TITLE

BASE DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VCL-07

REVISION:

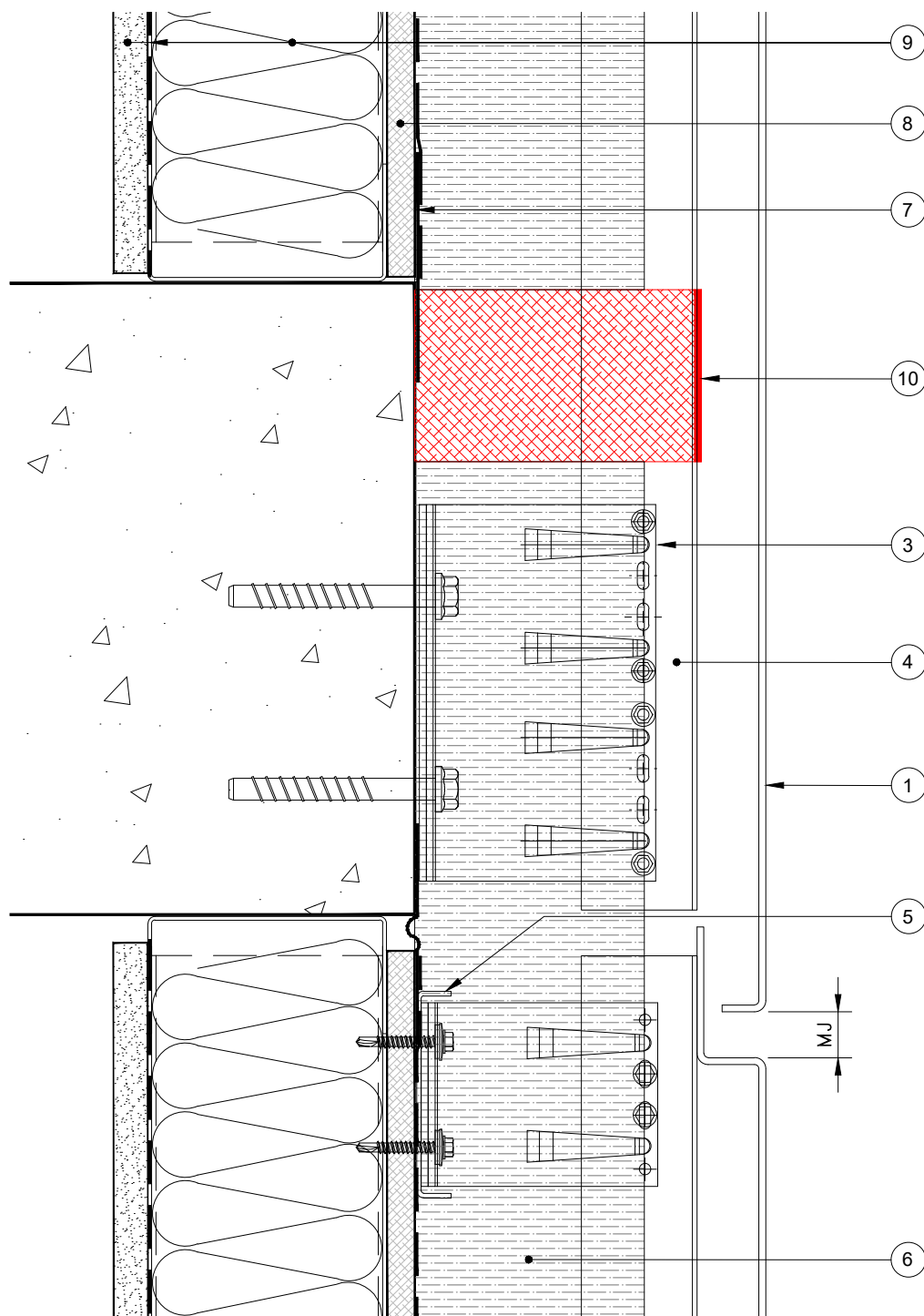
P1

DRAWN BY:

RY

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

LABYRINTH JOINT CASSETTES ARE PRIMARILY FOR PORTRAIT PANELS WITH SIDE FIXINGS ONLY

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 VCL-02, OTHER OPTIONS AVAILABLE ON LAYOUTS VCL-03, 04 & 05

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix fixing (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 |
| | | 17. Window head (perforated) |
| | | 18. Window Jamb |

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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DRG TITLE

SLAB EDGE DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

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REVISION:

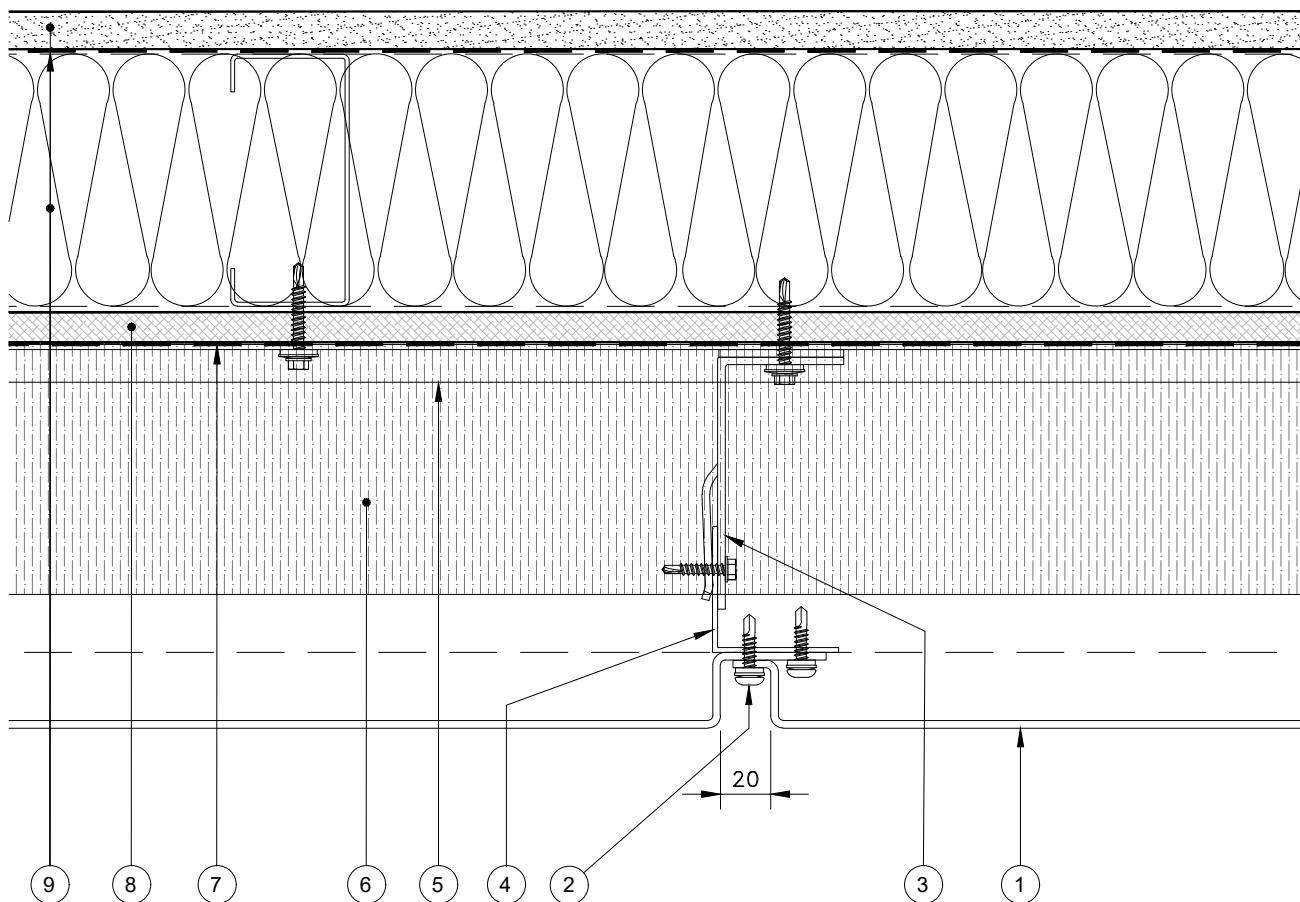
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DRAWN BY:

RY

DRAWING DATE:

JUN 2026



DRAWING SHOWS VF1
BRACKETS DETAILED ON
LAYOUT VCL-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VCL-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 fixing (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 |
| | | 17. Window head (perforated) |
| | | 18. Window Jamb |

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 CASSETTE labyrinth 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:

VCL-09

REVISION:

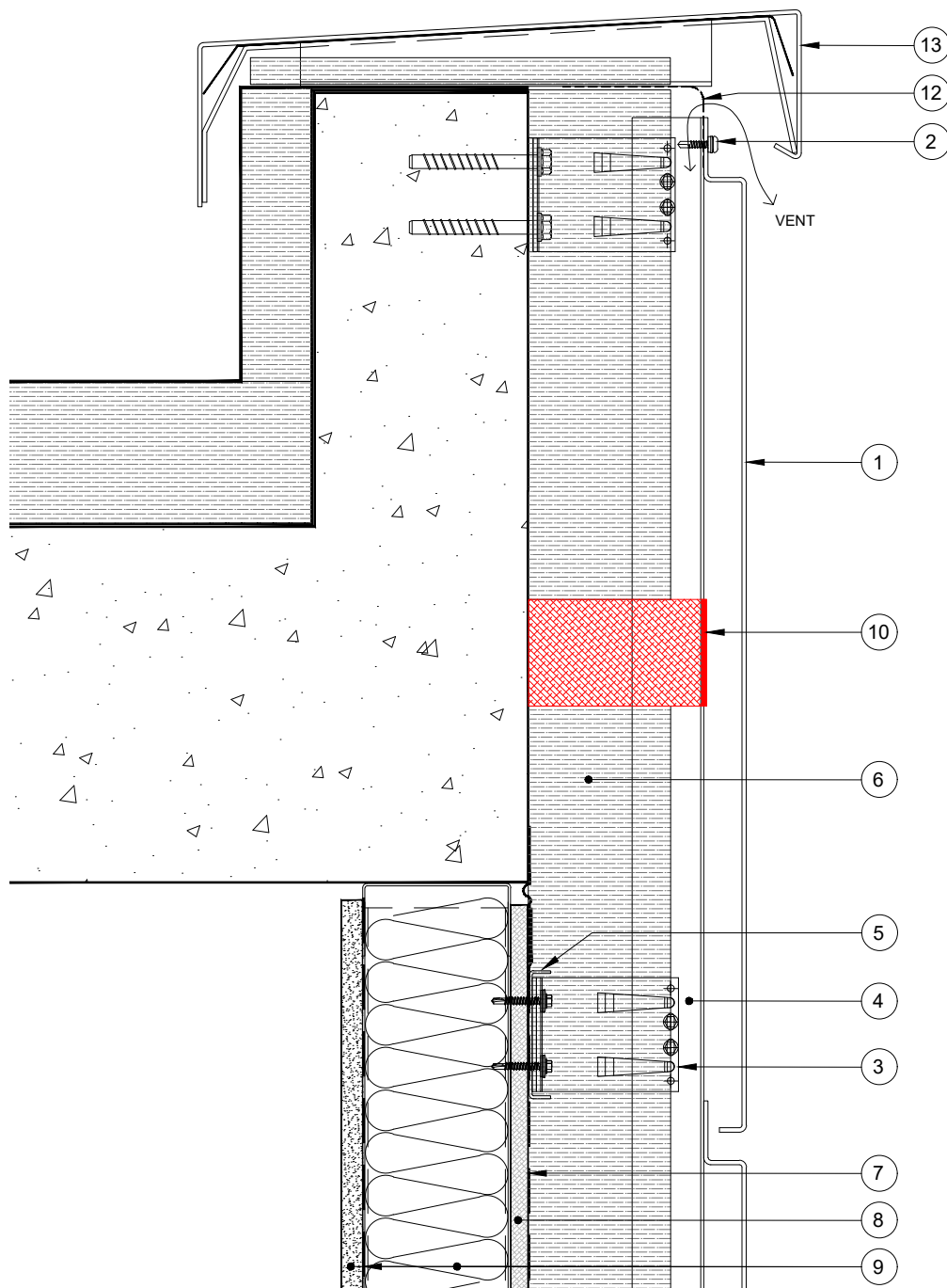
P1

DRAWN BY:

RY

DRAWING DATE:

JUN 2026



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 VCL-02, OTHER OPTIONS AVAILABLE ON LAYOUTS VCL-03, 04 & 05

VF1 BRACKET SETTING OUT SUBJECT TO PROJECT SPECIFIC LOADING DESIGN CALCULATIONS

LABYRINTH JOINT CASSETTES ARE PRIMARILY FOR PORTRAIT PANELS WITH SIDE FIXINGS ONLY

- | | | |
|--|---|------------------------------------|
| 1. 2 or 3mm thk Vitradual panel | 6. Insulation (project dependant) | 11. Drip cill (project dependant) |
| 2. Vitrafix fixing (coloured to match panel) | 7. Breather membrane (project dependant) | 12. Insect mesh |
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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 CASSETTE labyrinth joints

DRG TITLE

PARAPET DETAIL

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SCALE @ A4:

1:5

DRAWING NUMBER:

VCL-10

REVISION:

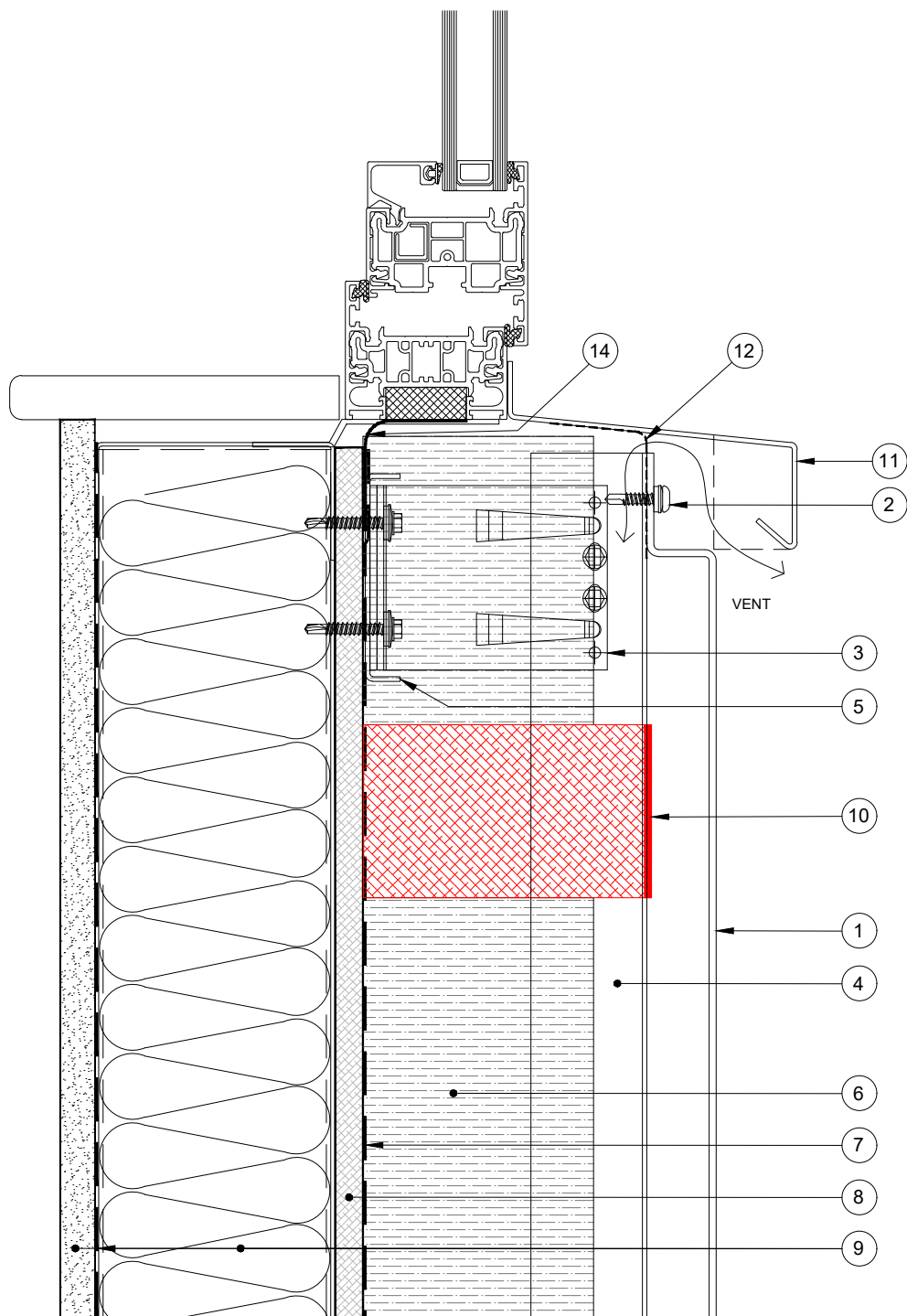
P1

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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 VCL-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VCL-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 CASSETTE labyrinth joints

DRG TITLE

WINDOW CILL DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VCL-11

REVISION:

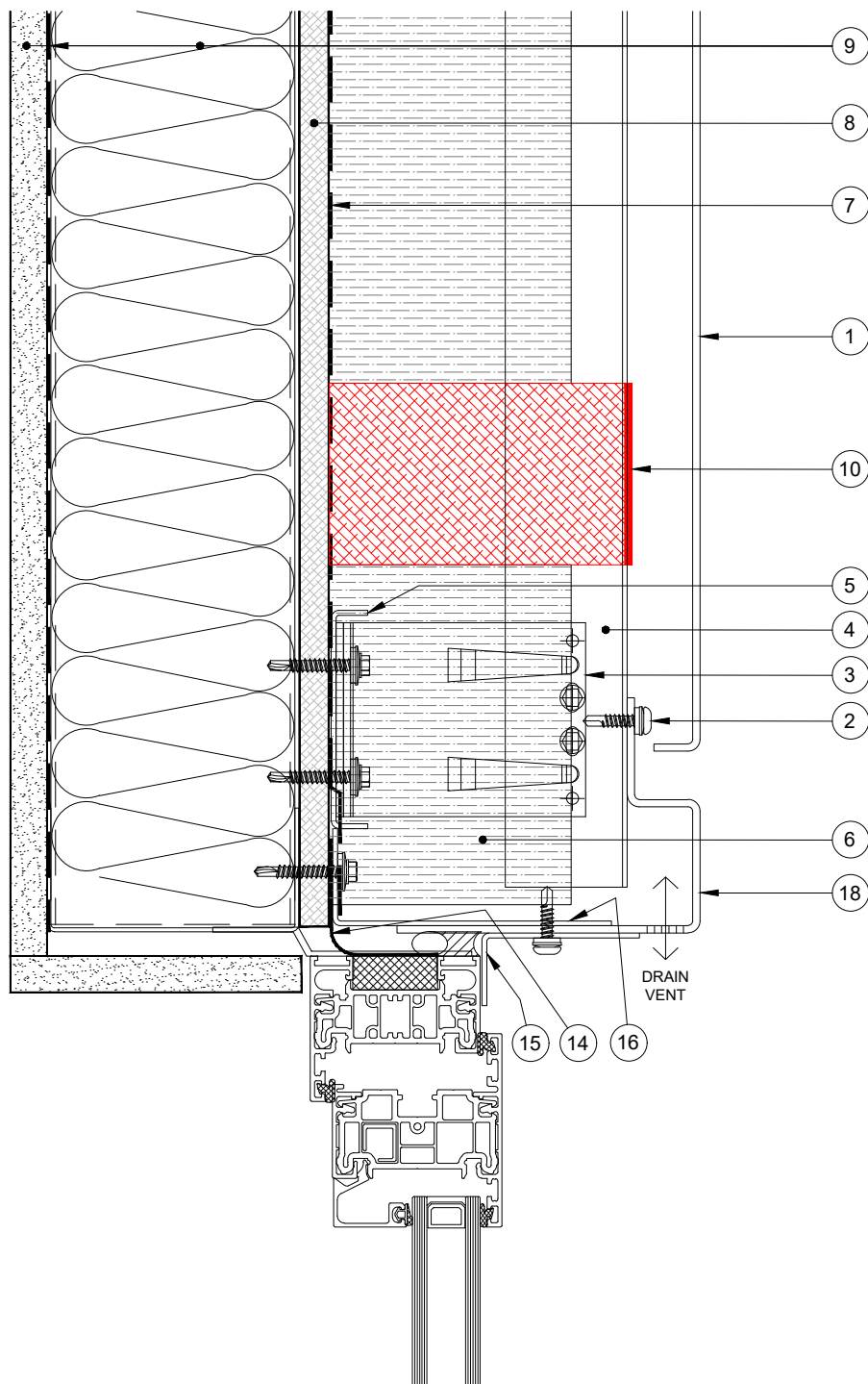
P1

DRAWN BY:

RY

DRAWING DATE:

JUN 2026



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

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

LABYRINTH JOINT CASSETTES ARE
PRIMARILY FOR PORTRAIT PANELS
WITH SIDE FIXINGS ONLY

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

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

WINDOW HEAD DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VCL-12

REVISION:

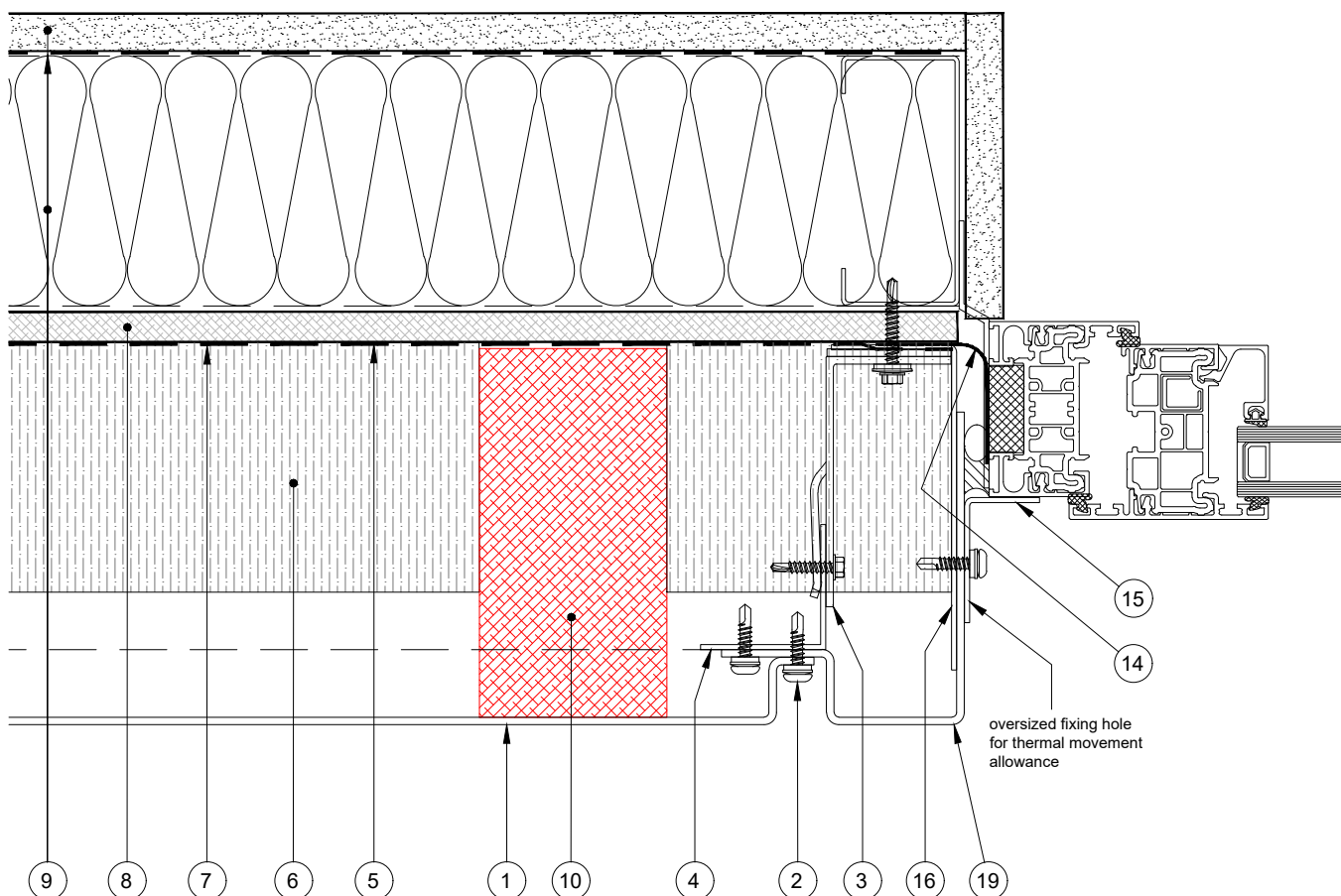
P1

DRAWN BY:

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DRAWING DATE:

JUN 2026



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

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

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

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

WINDOW JAMB DETAIL

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SCALE @ A4:

1:3

DRAWING NUMBER:

VCL-13

REVISION:

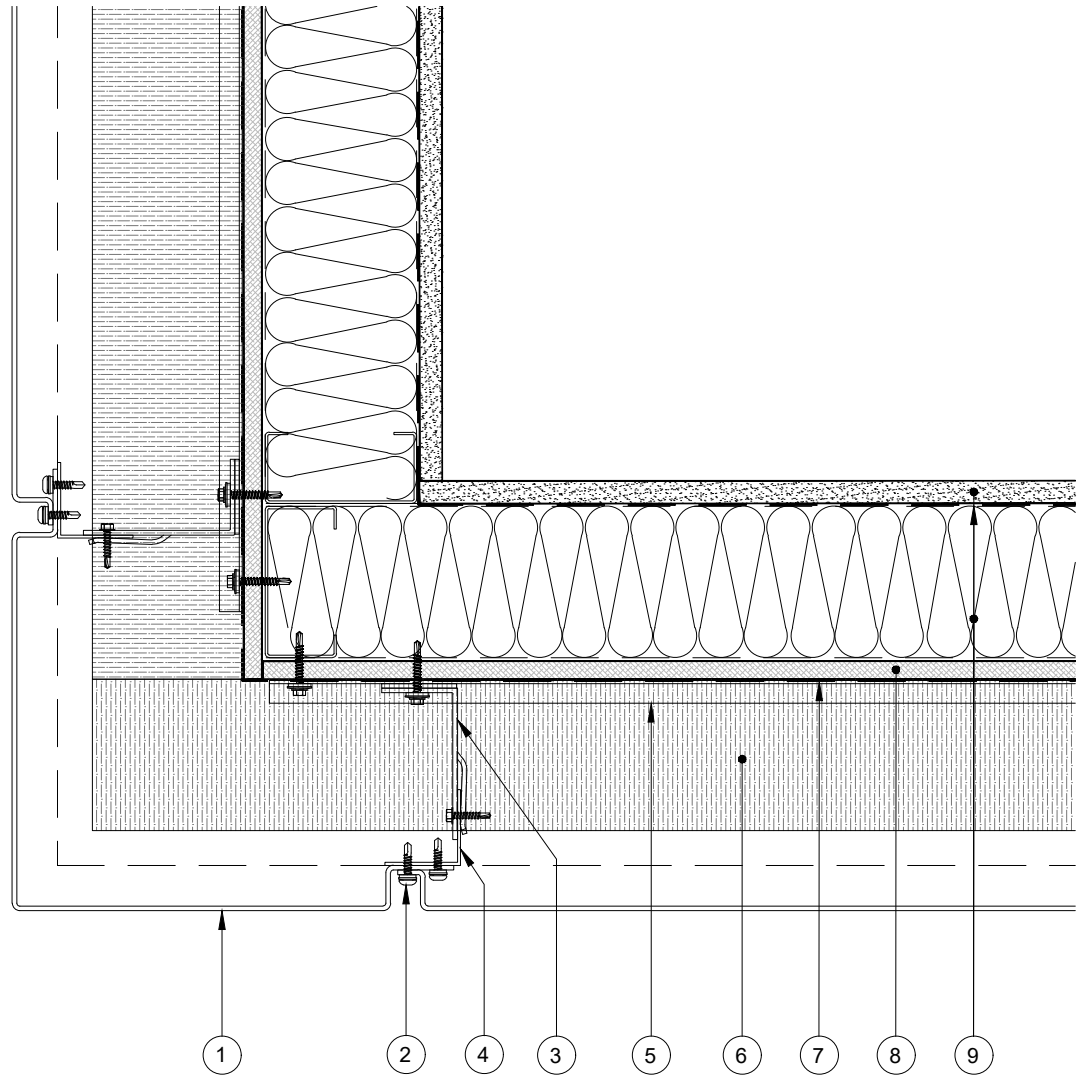
P1

DRAWN BY:

RY

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 VCL-02, OTHER
OPTIONS AVAILABLE ON
LAYOUTS VCL-03, 04 & 05

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

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

EXTERNAL CORNER DETAIL

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SCALE @ A4:

1:5

DRAWING NUMBER:

VCL-14

REVISION:

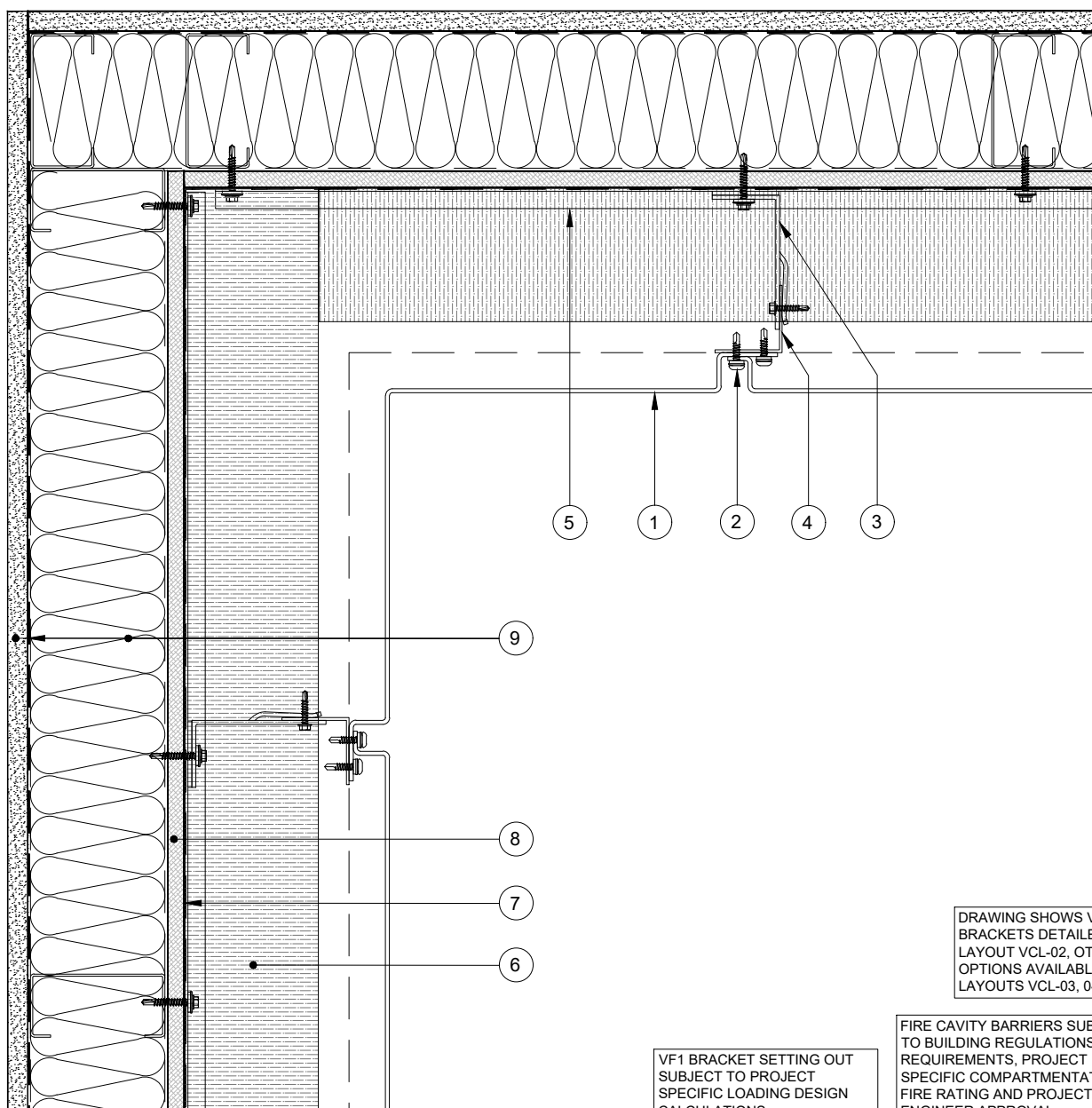
P1

DRAWN BY:

RY

DRAWING DATE:

JUN 2026



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

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

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

VITRADUAL CASSETTE labyrinth joints

DRG TITLE

INTERNAL CORNER DETAIL

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SCALE @ A4:

1:5

DRAWING NUMBER:

VCL-15

REVISION:

P1

DRAWN BY:

RY

DRAWING DATE:

JUN 2026