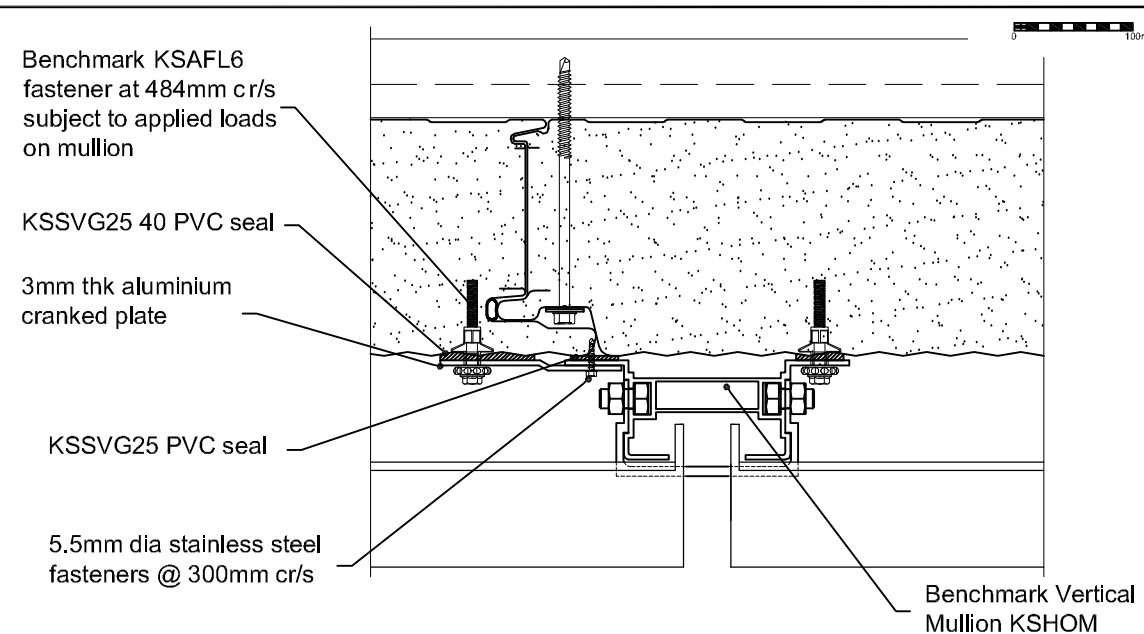
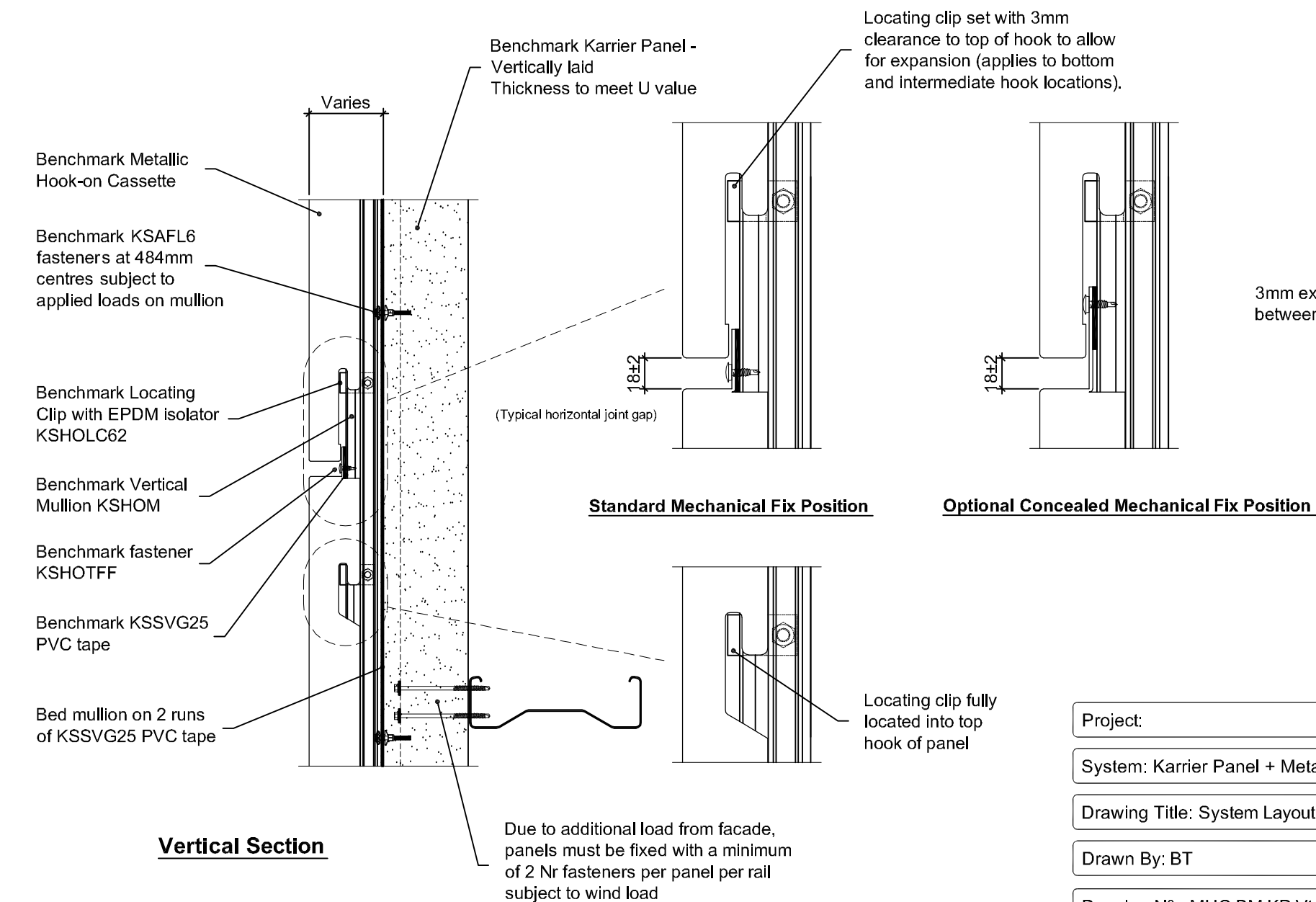


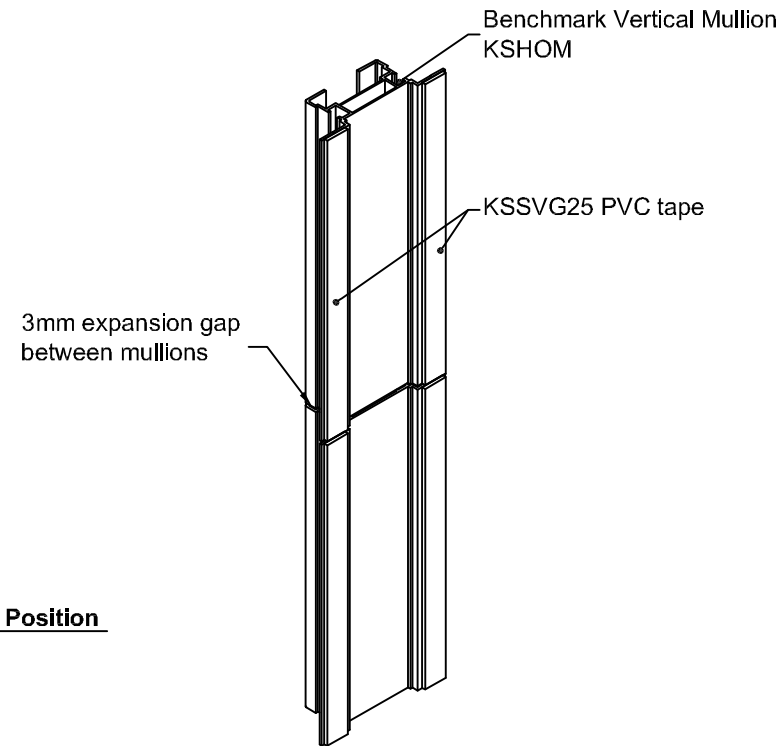
**Horizontal Section**



**Condition where mullion conflicts with vertical panel joint**



**Vertical Section**



**KSSVG25 PVC tape to rear of Benchmark Vertical Mullion KSHOM**

**Material, Gauges and Finishes and Colours**  
Please refer to latest product guide and website.

**Panel Sizes and Tolerances**  
Depends on material choice - please refer to current data sheet.

**Structural Rails**  
Design for lateral loads and for gravity load of façade system. System weights are provided in current product data sheets.

**Benchmark KSAFL6 Fasteners**  
Must not be positioned less than 100mm from a site cut edge of the Karrier Panel.

**Dissimilar Metals**  
Contact between dissimilar metals must be prevented with PVC isolation tape.

**Handling**  
The surface of certain metals such as copper are susceptible to finger marking. Suitable clean gloves should be worn when handling these materials.

**Open Edges**  
Open edges should be fitted with insect mesh

**Cavity Barriers**  
Cavity barriers are not supplied with the Benchmark Facade system and must be specified and sourced separately.

**Steelwork Tolerances**  
The permissible steelwork tolerance between the bearing planes of adjacent supports is  $\pm 5\text{mm}$

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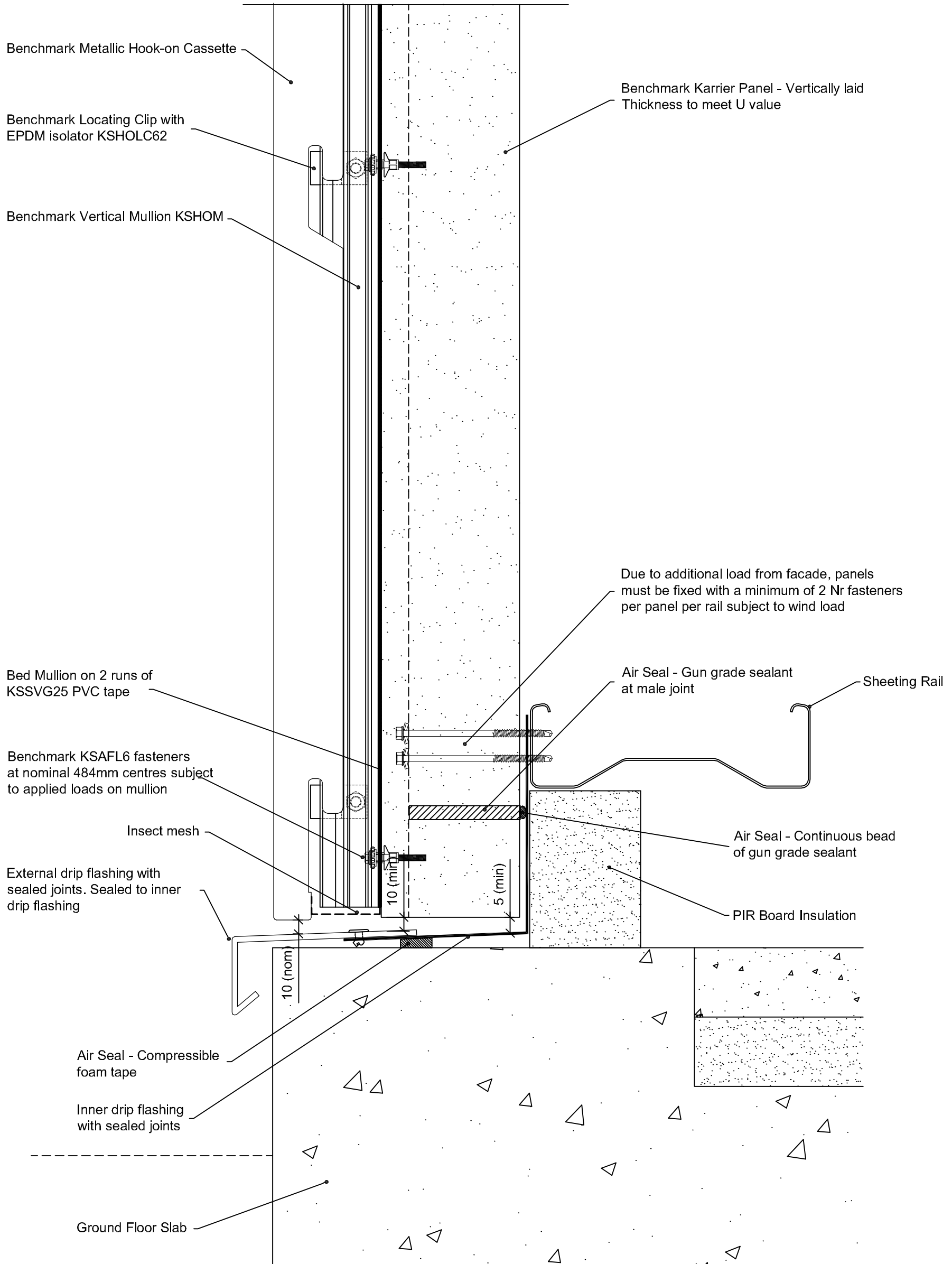
Project:			
System: Karrier Panel + Metallic Hook-on Cassette			
Drawing Title: System Layout			
Drawn By: BT	Date: 26/07/2012		
Drawing N°.: MHC BM KP Vt 100	Rev: A		

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0 100mm



Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Drip Detail

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 101

Rev: 0

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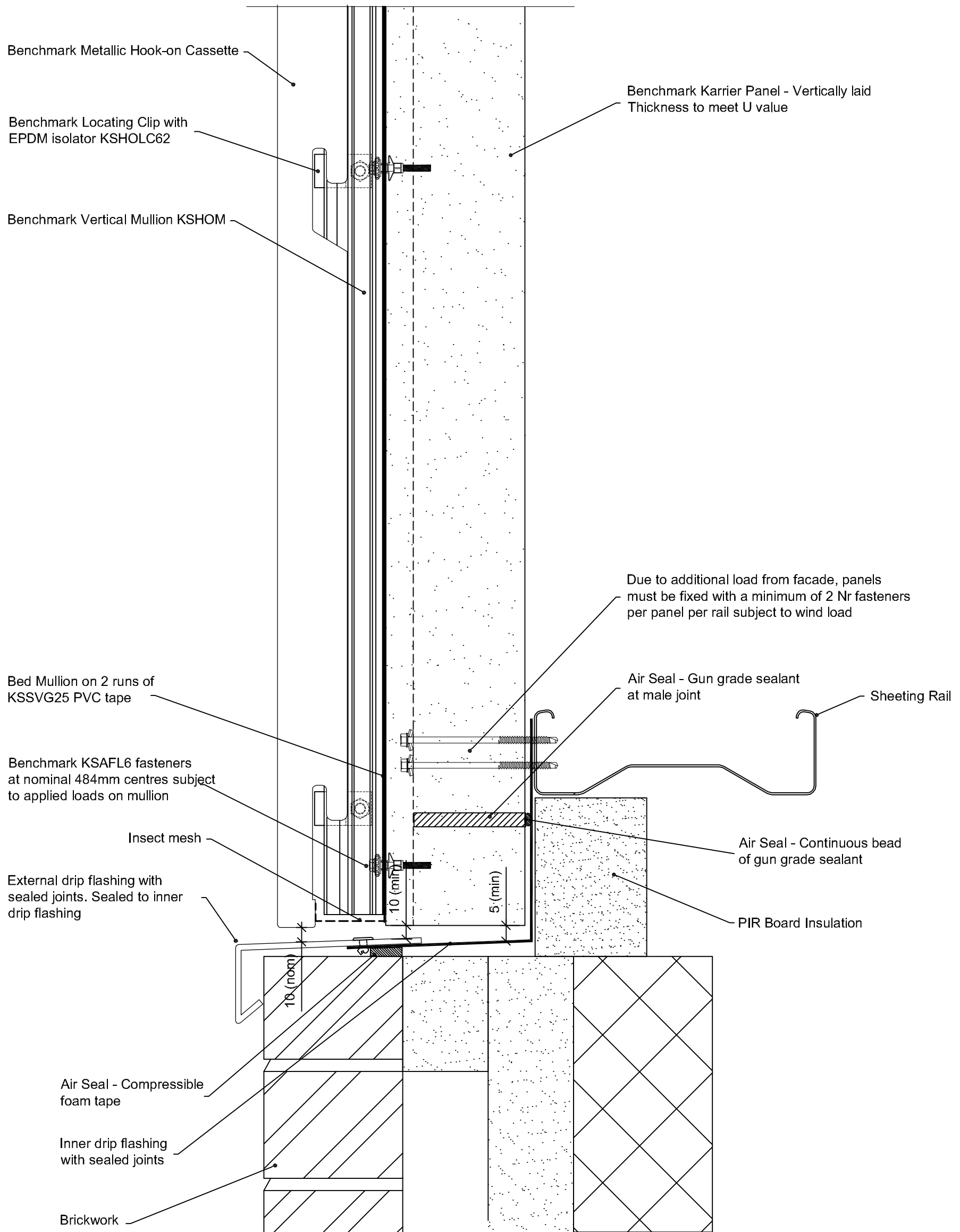


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0 100mm



Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Drip Detail

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 102

Rev: 0

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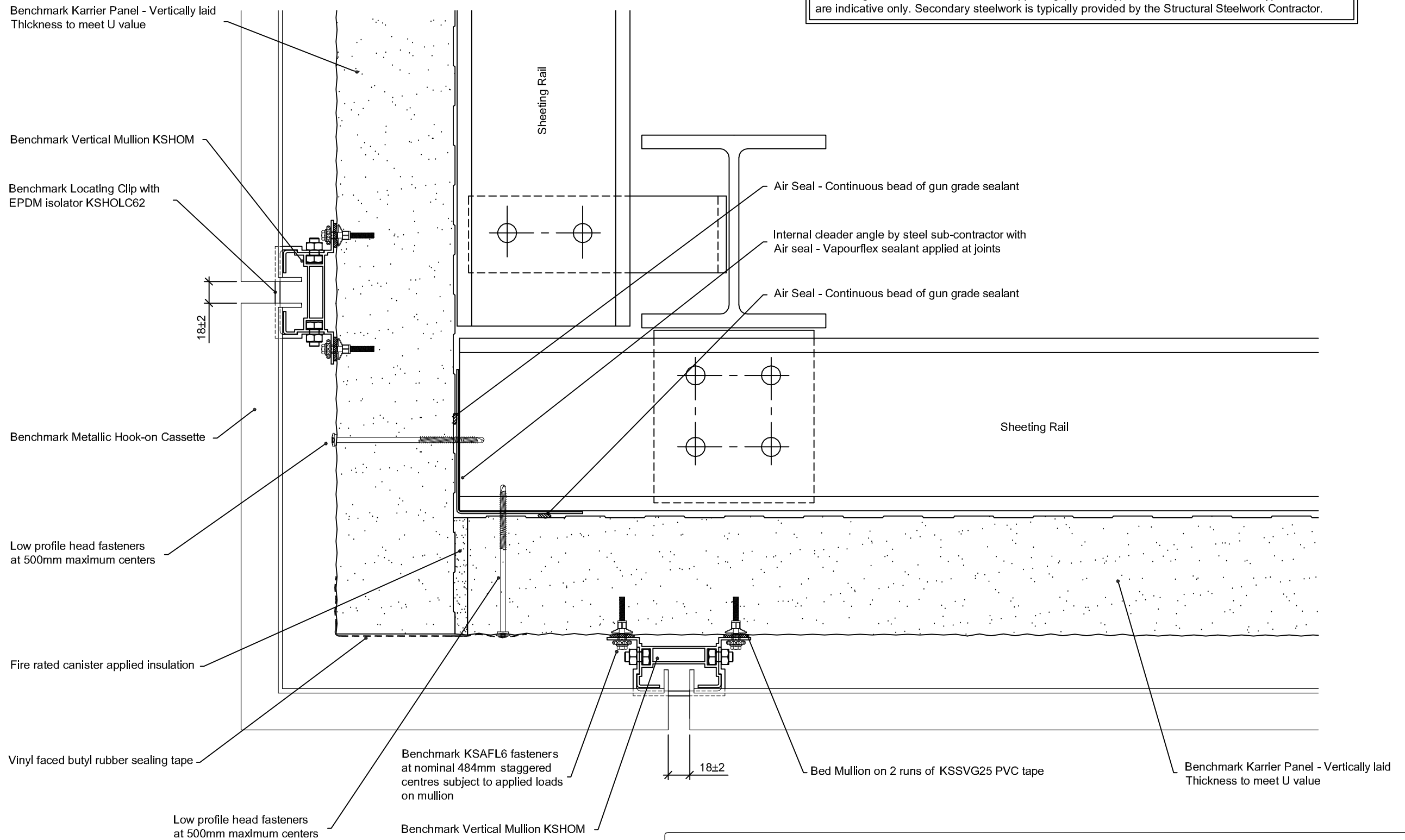


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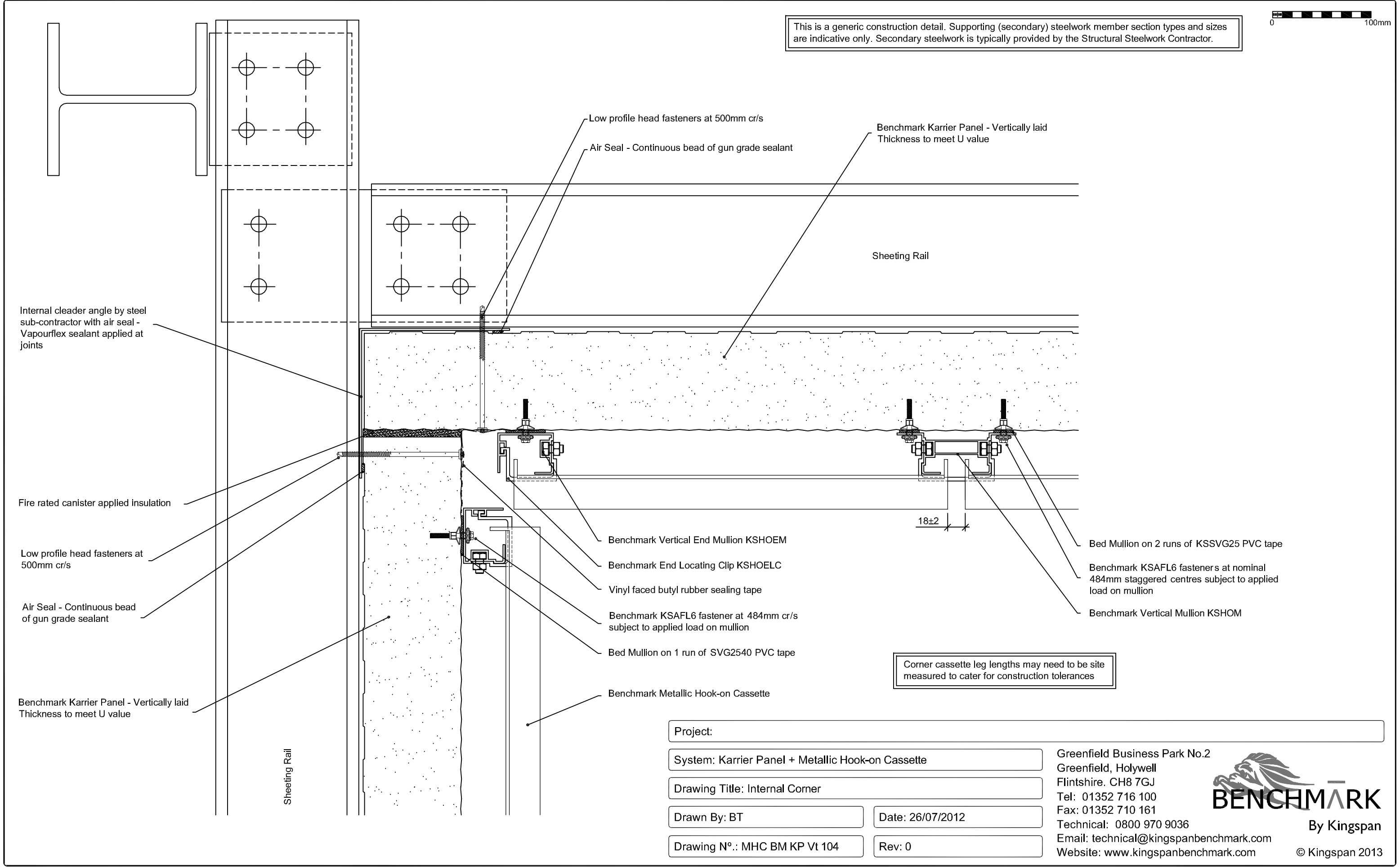


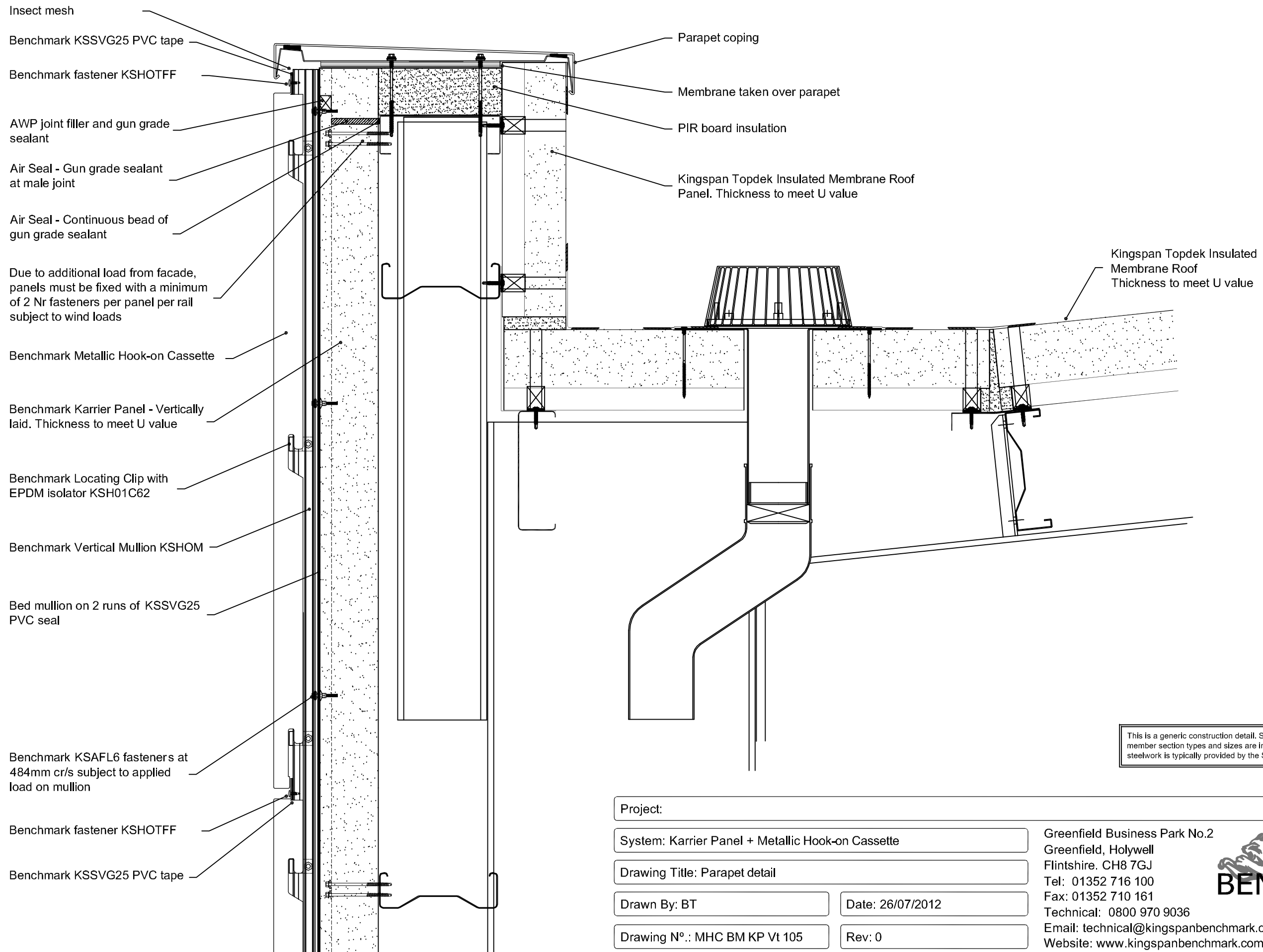
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Corner cassette leg lengths may need to be site measured to cater for construction tolerances

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System: Karrier Panel + Metallic Hook-on Cassette		 By Kingspan © Kingspan 2013	
Drawing Title: External Corner			
Drawn By: BT	Date: 26/07/2012		
Drawing N°.: MHC BM KP Vt 103	Rev: 0		



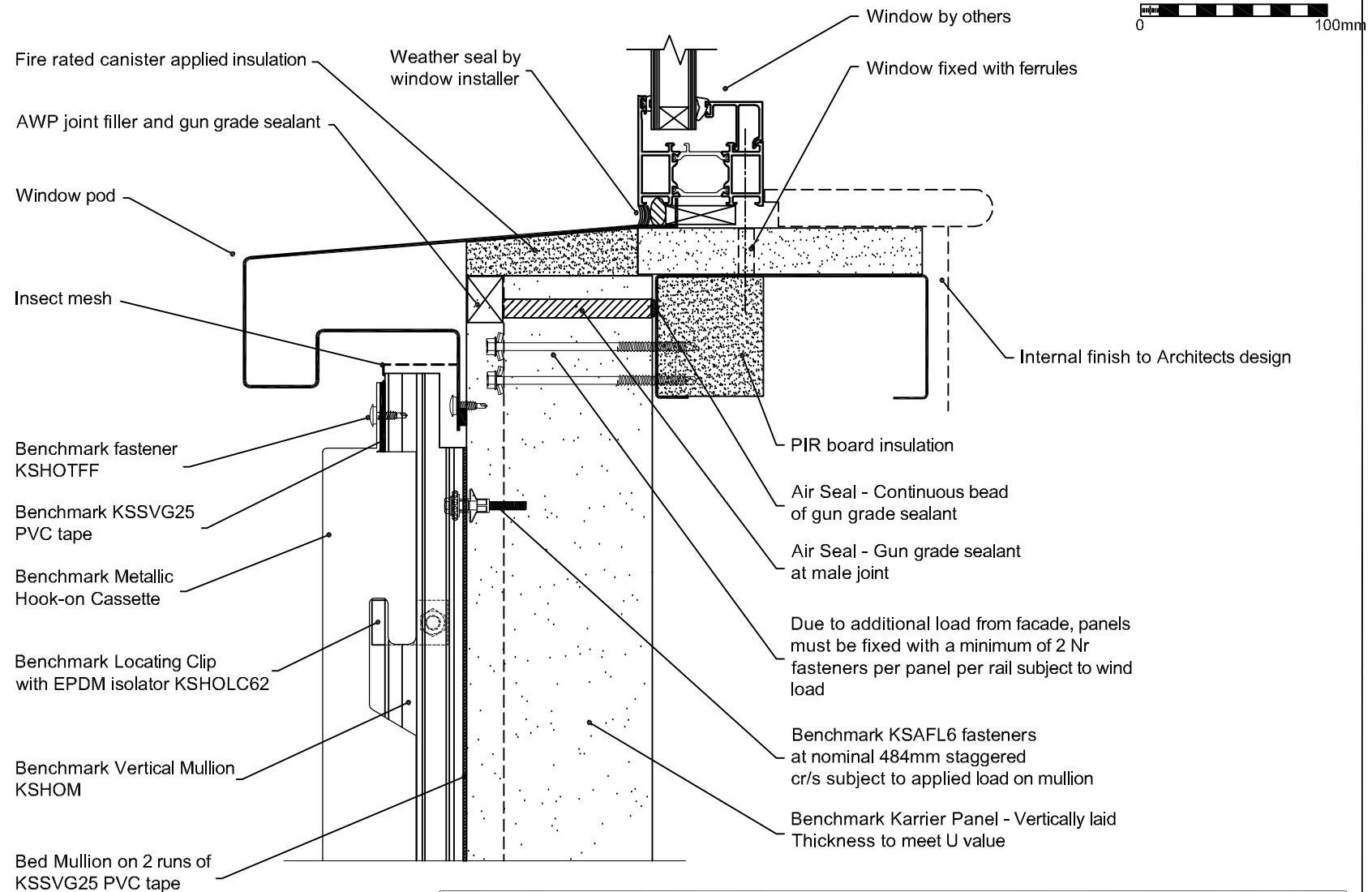


Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Parapet detail	
Drawn By: BT	Date: 26/07/2012
Drawing N°.: MHC BM KP Vt 105	Rev: 0

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Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Sill

Drawn By: BT

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 106

Rev: 0

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Benchmark Vertical Mullion  
KSHOM

Bed Mullion on 2 runs  
of KSSVG25 PVC tape

Benchmark Metallic  
Hook-on Cassette

Benchmark KSAFL6 fasteners  
at nominal 484mm staggered  
cr/s subject to applied load on  
mullion

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Gun grade butyl rubber  
sealant to vertical panel joint

Seal pod to face of panel with  
20 x 3 butyl rubber seal and  
gun grade butyl rubber pointing

Insect mesh

10 (nom)

External Window Pod

Fire rated canister applied  
insulation to fill any gaps to  
maintain continuity of insulation

Weather Seal by Window Installer

Gun grade butyl rubber sealant  
taken across panel joint

Benchmark Karrier Panel -  
Vertically laid  
Thickness to meet U value

Air Seal - Gun grade sealant  
at male joint

Air Seal - Continuous bead  
of gun grade sealant

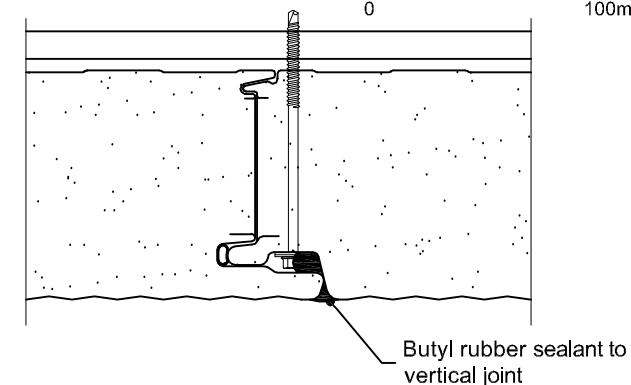
Due to additional load from facade,  
panels must be fixed with a minimum of 2 No.  
fasteners per panel per rail subject to wind  
load

Internal Finish To Architects Design

PIR Board Insulation

Window By Others

0 100mm



**Vertical Joint Detail at Window Head**

This is a generic construction detail. Supporting  
(secondary) steelwork member section types and  
sizes are indicative only. Secondary steelwork is  
typically provided by the Structural Steelwork  
Contractor.

**Note**  
Vertical panel joints above window pod to be  
sealed with butyl rubber sealant (see detail).

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Head

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 107

Rev: 0

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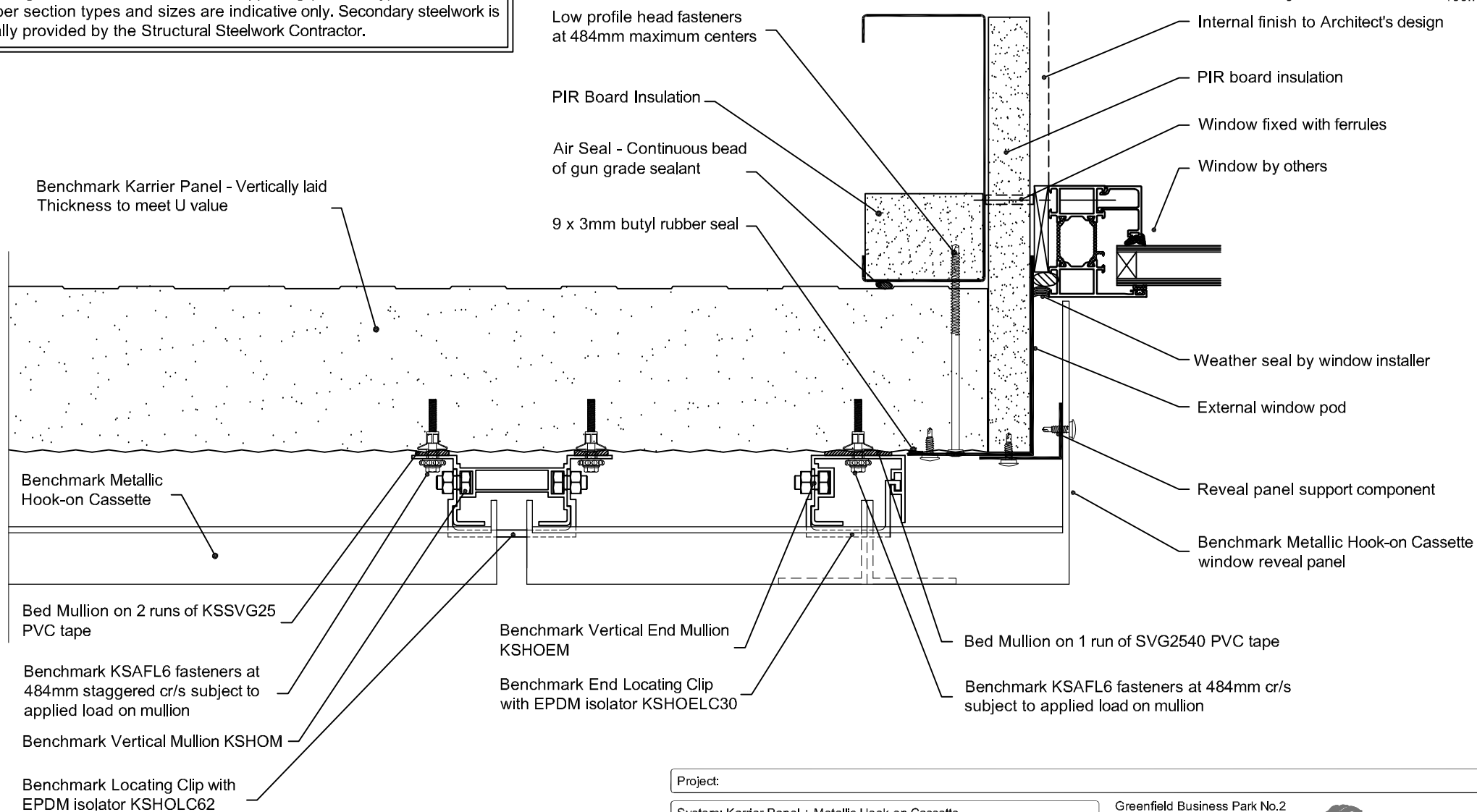
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Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Jamb

Drawn By: BT

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 108

Rev: 0

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Benchmark Vertical Mullion  
KSHOM

Bed Mullion on 2 runs  
of KSSVG25 PVC tape

Benchmark Metallic  
Hook-on Cassette

Benchmark KSAFL6 fasteners  
at 484mm staggered cr/s subject  
to applied load on mullion

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Gun grade butyl rubber  
sealant to vertical panel joint

Seal pod to face of panel with  
20 x 3 butyl rubber seal and  
gun grade butyl rubber pointing

Insect mesh

10 (nom)

External door pod

Fire rated canister applied  
insulation to fill any gaps to  
maintain continuity of insulation

Weather seal by door installer

Gun grade butyl rubber sealant  
taken across panel joint

Benchmark Karrier Panel -  
Vertically laid  
Thickness to meet U value

Air Seal - Gun grade sealant  
at male joint

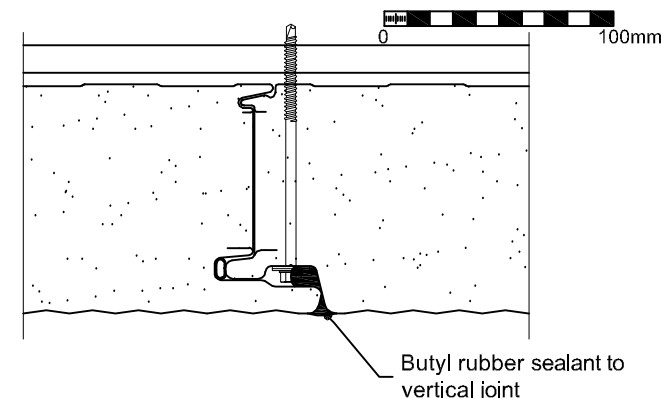
Air Seal - Continuous bead  
of gun grade sealant

Due to additional load from facade,  
panels must be fixed with a minimum of 2 No.  
fasteners per panel per rail subject to wind  
load

Internal Finish To Architects Design

PIR Board Insulation

Door by others



**Vertical Joint Detail at Door Head**

**Note**  
Vertical panel joints above window pod to be  
sealed with butyl rubber sealant (see detail).

This is a generic construction detail. Supporting  
(secondary) steelwork member section types and  
sizes are indicative only. Secondary steelwork is  
typically provided by the Structural Steelwork  
Contractor.

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Door Head

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 109

Rev: 0

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Benchmark Metallic  
Hook-on Cassette

Benchmark Vertical  
Mullion KSHOM

Bed Mullion on 2 runs  
of KSSVG25 PVC tape

Benchmark KSAFL6  
fasteners at 484mm cr/s  
subject to applied load  
on mullion

Gun grade butyl rubber  
sealant to vertical panel joint

Benchmark Locating  
Clip with EPDM isolator  
KSHOLC62

Insect mesh

External drip flashing with sealed joints.  
Sealed to face of panel with 20 x 3 butyl  
rubber seal and gun grade butyl rubber  
pointing

EPDM Membrane (by  
others) installed in sequence  
on site

Curtain walling system (by others)

Gun grade butyl rubber sealant  
taken across panel joint

Benchmark Karrier Panel -  
Vertically laid  
Thickness to meet U value

Air Seal - Gun grade sealant  
at male joint

Air Seal - Continuous bead of  
gun grade sealant

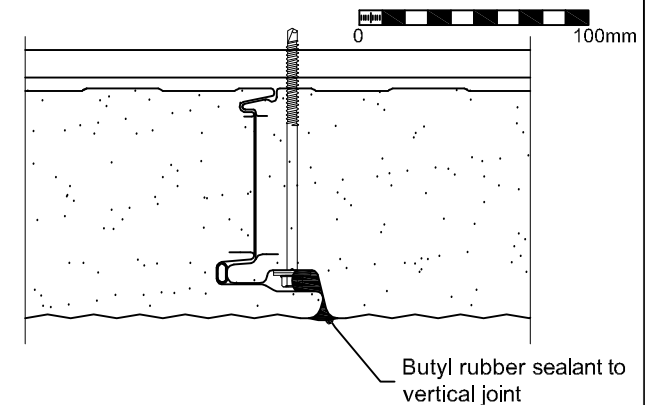
Due to additional load from  
facade, panels must be fixed  
with a minimum of 2 Nr  
fasteners per panel per rail  
subject to wind loads

PIR Insulation board

Internal Finish To Architects Design

Air Seal - Internal Membrane  
(by others) installed in  
sequence on site

PIR Insulation board



**Vertical Joint Detail at Curtain Walling Head**

This is a generic construction detail. Supporting (secondary) steelwork member section types and sizes are indicative only. Secondary steelwork is typically provided by the Structural Steelwork Contractor.

**Note**  
Vertical panel joints above window pod to be  
sealed with butyl rubber sealant (see detail).

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Curtain Walling Head

Drawn By: BT

Date: 13/06/2012

Drawing N°: MHC BM KP Vt 111

Rev: 0

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Benchmark Karrier Panel - Vertically laid  
Thickness to meet U value

Low profile head fasteners  
at 484mm maximum centers

PIR Board Insulation

Air Seal - Continuous bead  
of gun grade sealant

Internal finish to Architect's design

Air Seal - Internal Membrane  
(by others) installed in  
sequence on site

PIR board insulation

Curtain walling system (by others)

EPDM Membrane (by  
others) installed in sequence  
on site

Benchmark Metallic  
Hook-on Cassette

Bed Mullion on 2 runs of KSSVG25  
PVC tape

Benchmark KSAFL6 fasteners at  
484mm staggered cr/s subject to  
applied load on mullion

Benchmark Vertical Mullion KSHOM

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Benchmark Vertical End Mullion  
KSHOEM

Benchmark End Locating Clip  
with EPDM isolator KSHOELC30

Bed Mullion on 1 run of SVG2540 PVC tape

Benchmark KSAFL6 fasteners at 484mm cr/s  
subject to applied load on mullion

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Curtain Walling Jamb

Drawn By: BT

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 112

Rev: 0

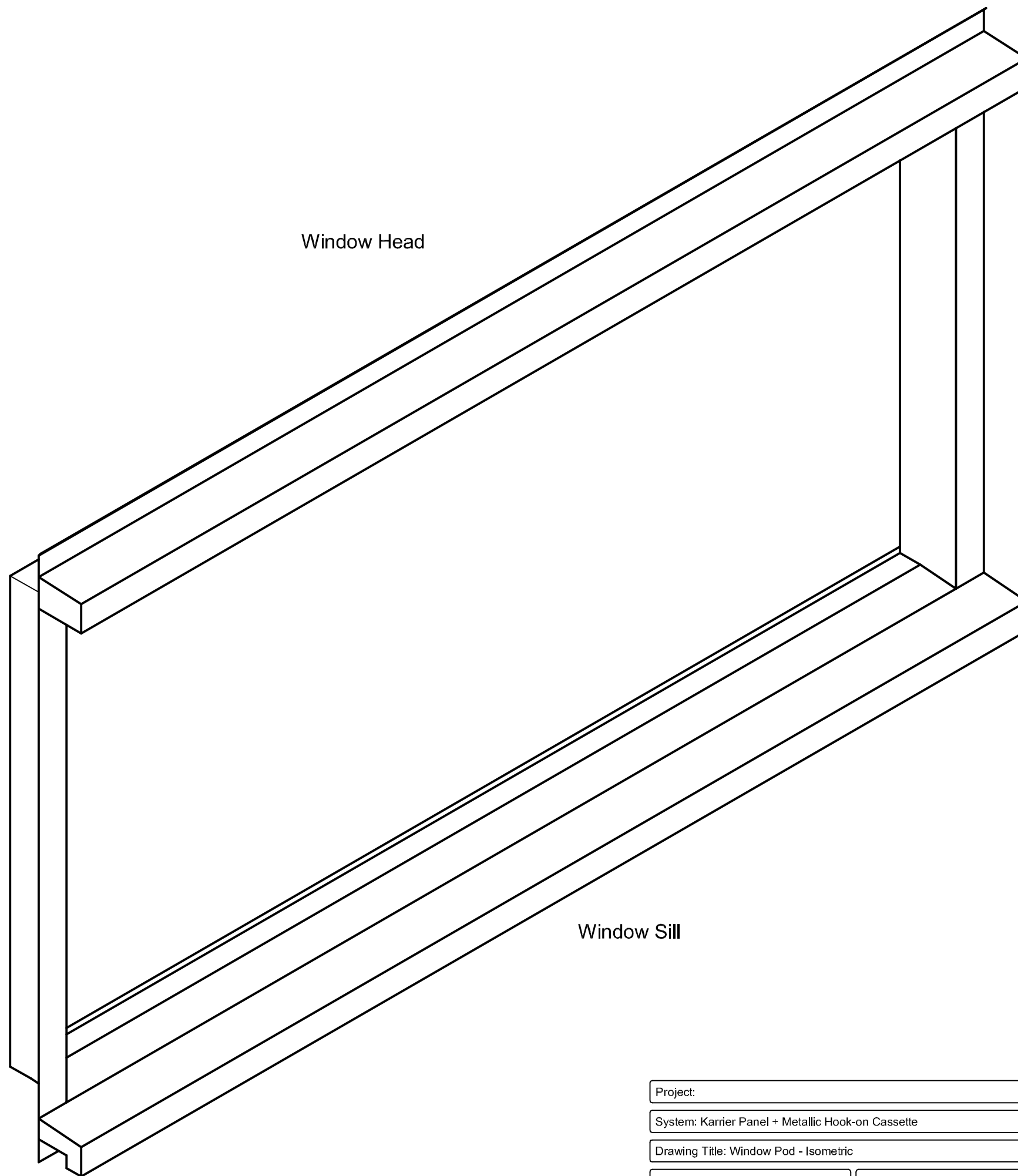
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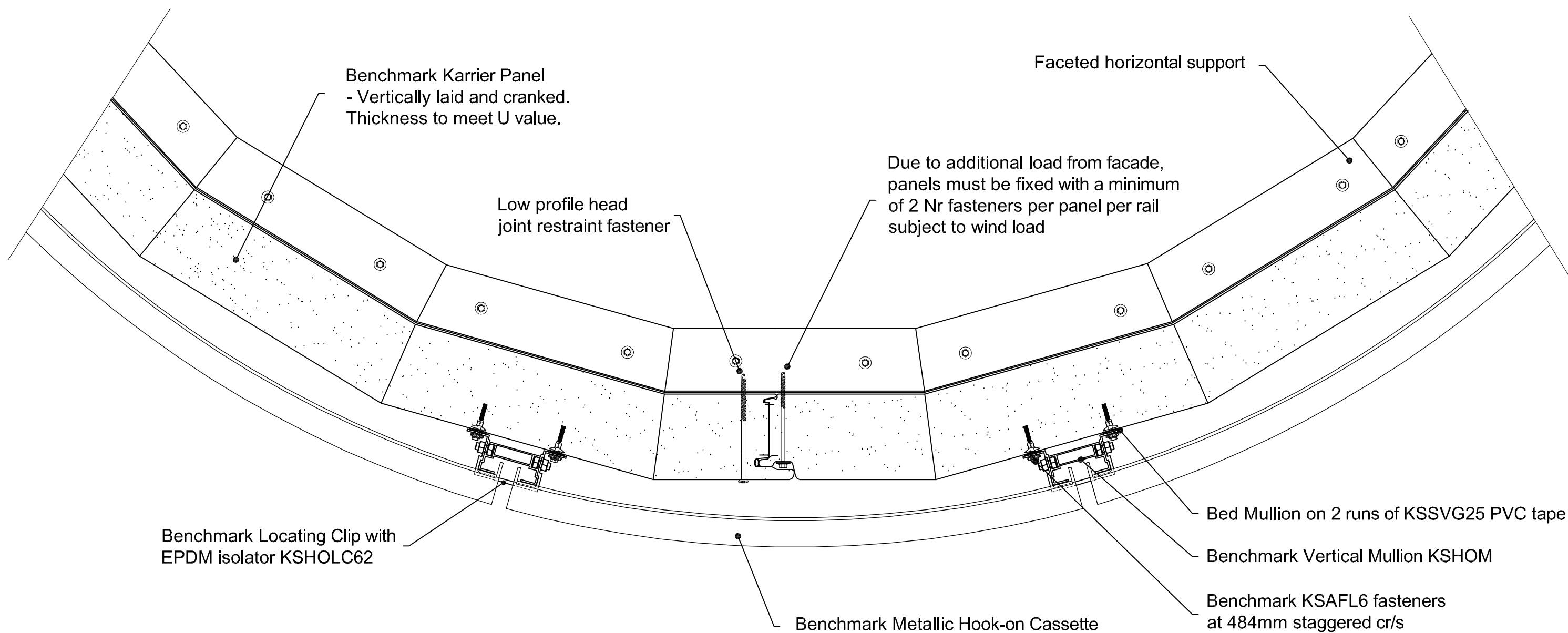
Window Head

Window Jamb

Window Sill

Generic only - component  
dimensions tailored to suit specific  
application

Project:	
System: Karrier Panel + Metallic Hook-on Cassette	Greenfield Business Park No.2 Greenfield, Holywell Flintshire. CH8 7GJ Tel: 01352 716 100 Fax: 01352 710 161 Technical: 0800 970 9036 Email: <a href="mailto:technical@kingspanbenchmark.com">technical@kingspanbenchmark.com</a> Website: <a href="http://www.kingspanbenchmark.com">www.kingspanbenchmark.com</a>
Drawing Title: Window Pod - Isometric	 By Kingspan © Kingspan 2013
Drawn By: BT	
Date: 26/07/2012	
Drawing N°. MHC BM KP VT 113	Rev: 0

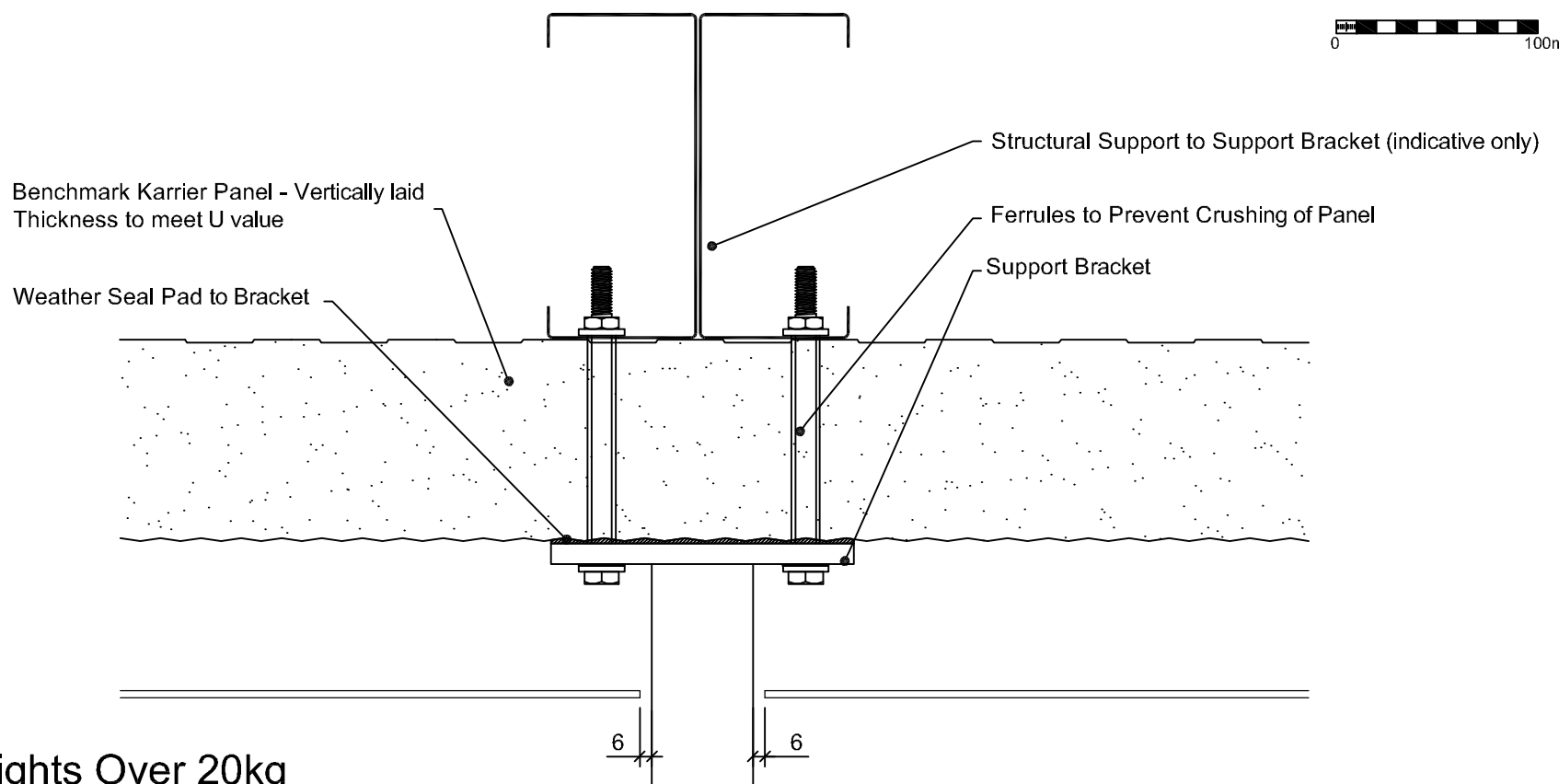


**Note**  
Achievable radii of cassettes is dependant on material type and gauge

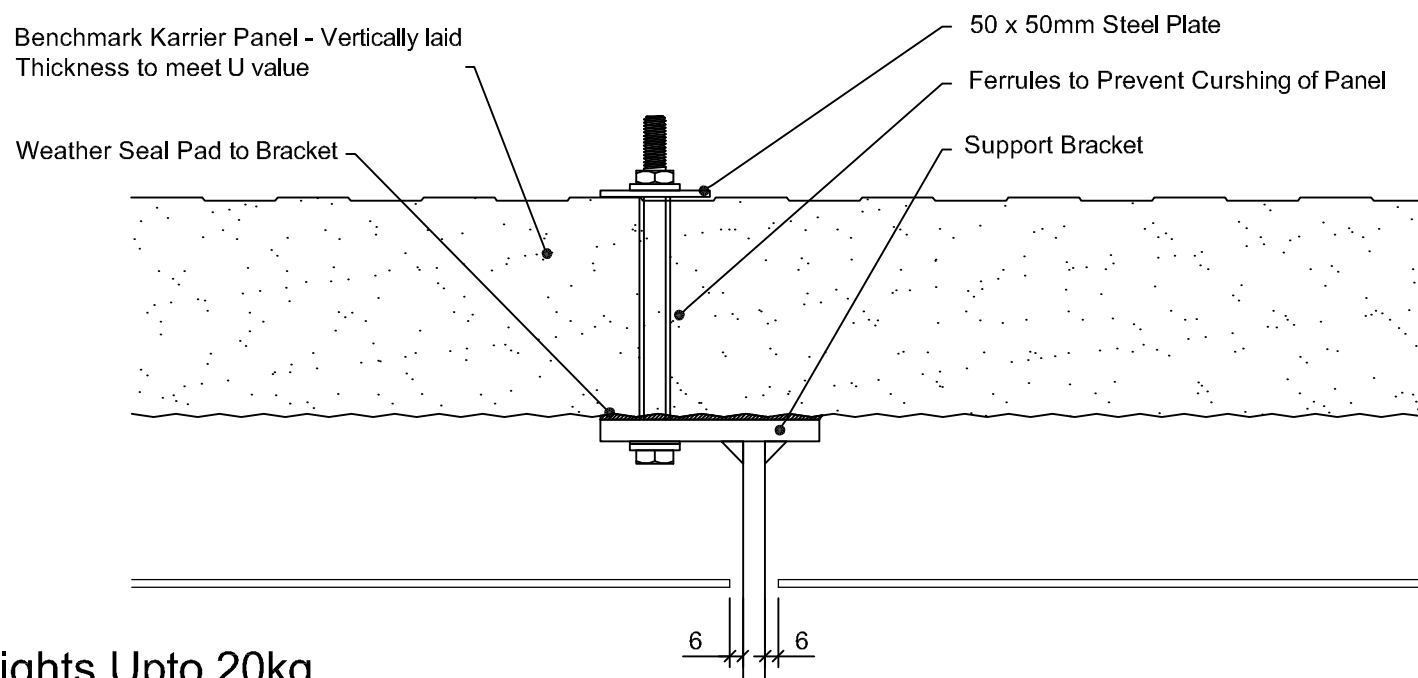
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System: Karrier Panel + Metallic Hook-on Cassette		By Kingspan	
Drawing Title: Curved Wall Detail		© Kingspan 2013	
Drawn By: BT	Date: 26/07/2012		
Drawing N°. MHC BM KP Vt 114	Rev: 0		

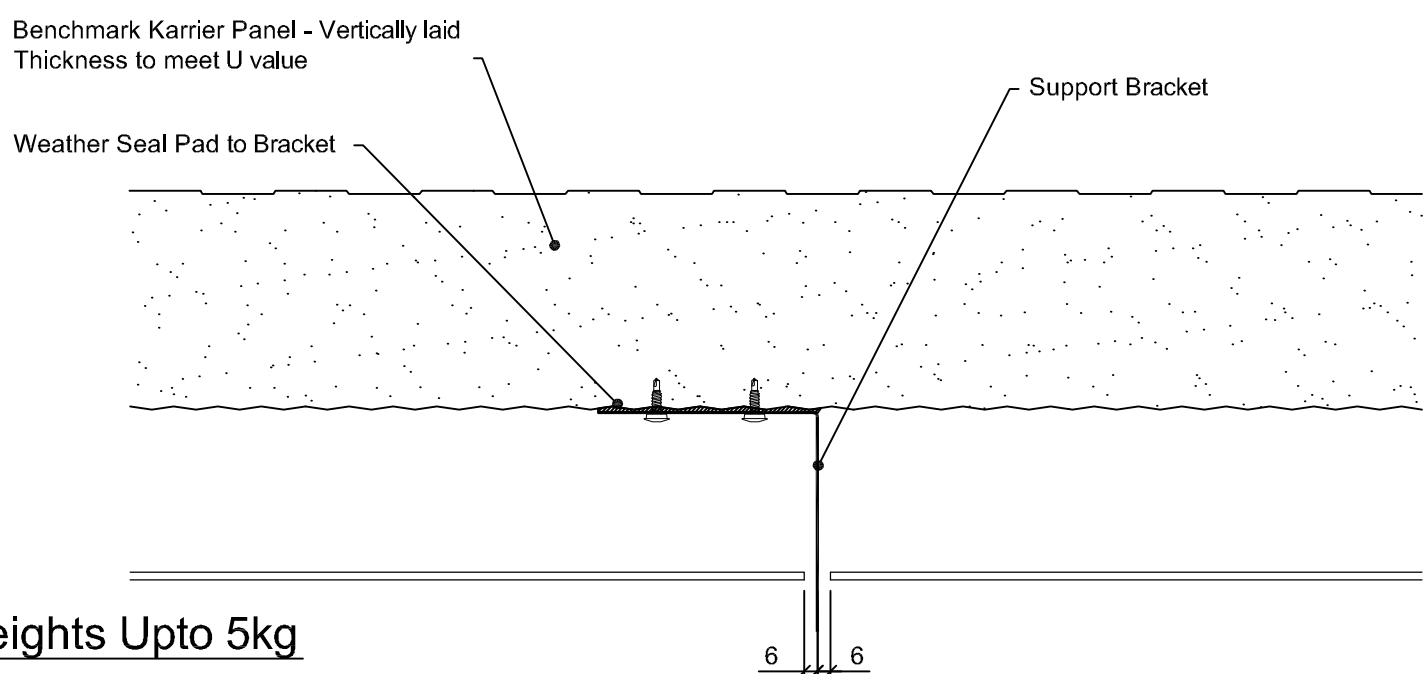




For Weights Over 20kg



For Weights Upto 20kg



For Weights Upto 5kg

## Longitudinal Sections Through Elevation

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Signage, Brise Soleil and Support Bracket Detail

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 115

Rev: 0

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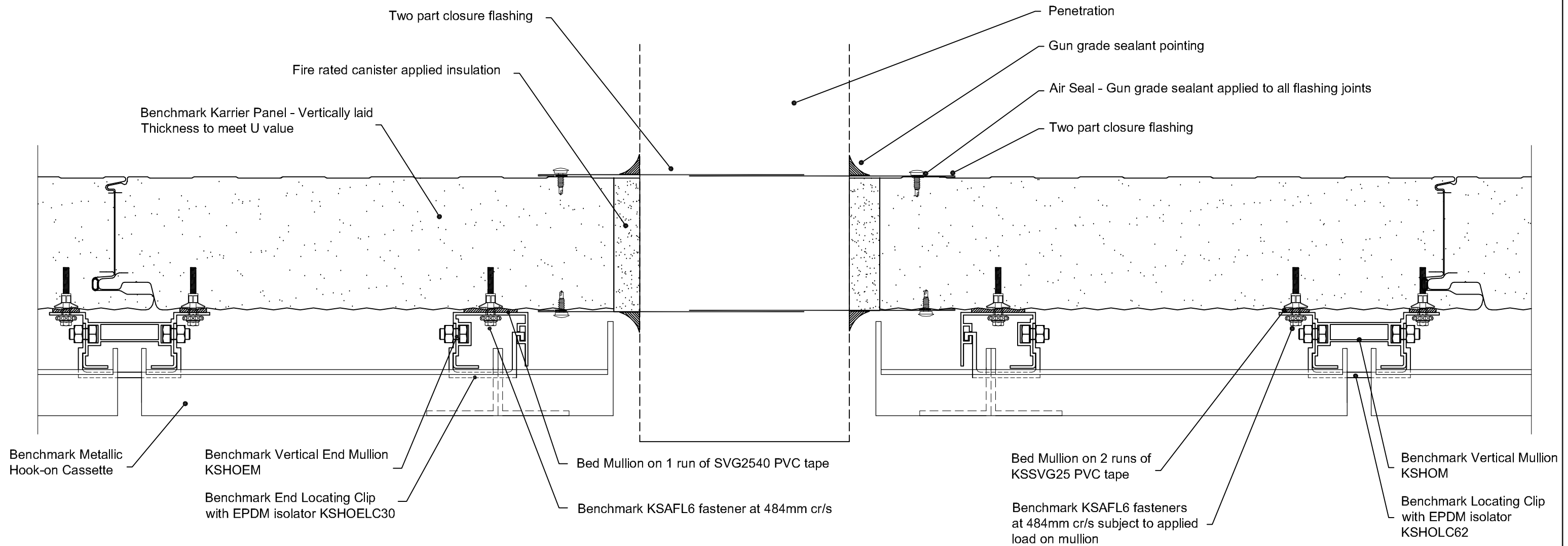
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Any penetration must be a minimum of 100mm from the joint in the Karrier Panel.  
Maximum penetration size of 300mm without structural trimmers to support Karrier Panel.

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Penetration Detail

Drawn By: BT

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 116

Rev: 0

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Website: [www.kingspanbenchmark.com](http://www.kingspanbenchmark.com)

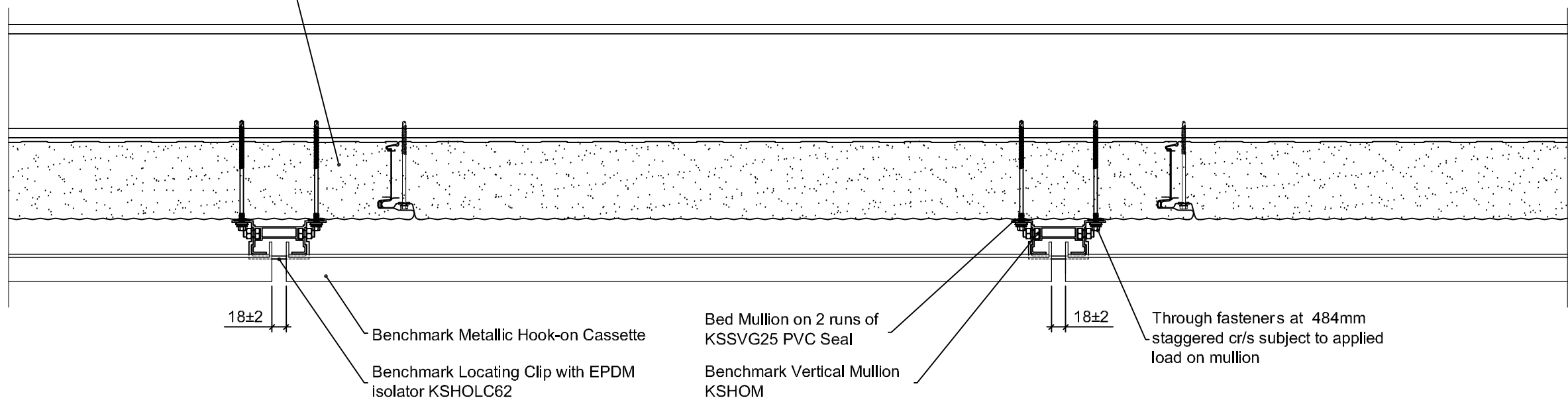
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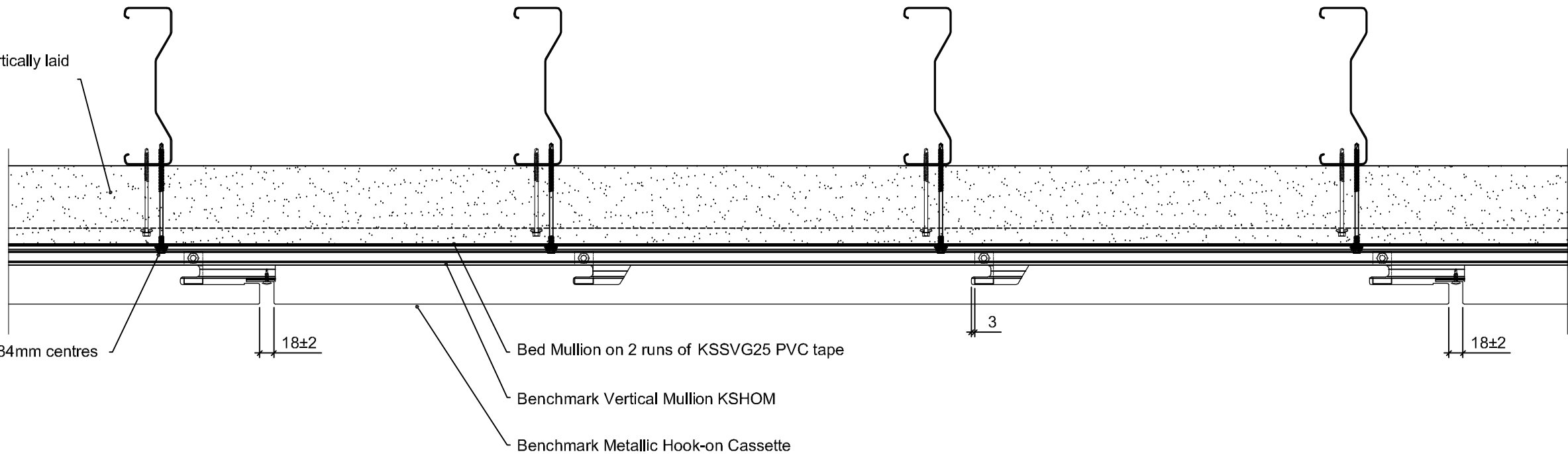
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Benchmark Karrier Panel - Vertically laid  
Thickness to meet U value



Benchmark Karrier Panel - Vertically laid  
Thickness to meet U value

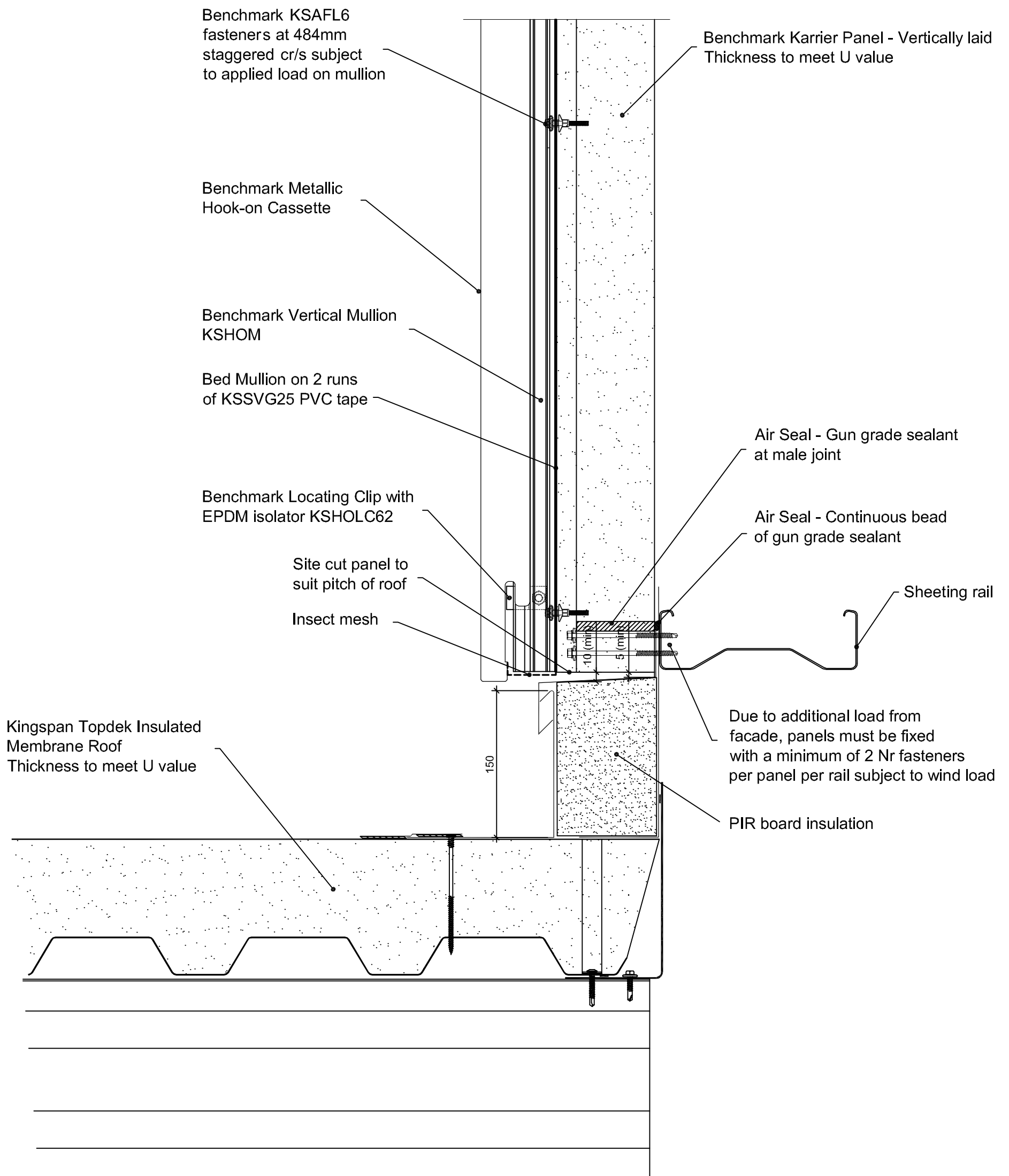


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Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Soffit Details	
Drawn By: BT	Date: 26/07/2012
Drawing N°. MHC BM KP Vt 117	Rev: 0

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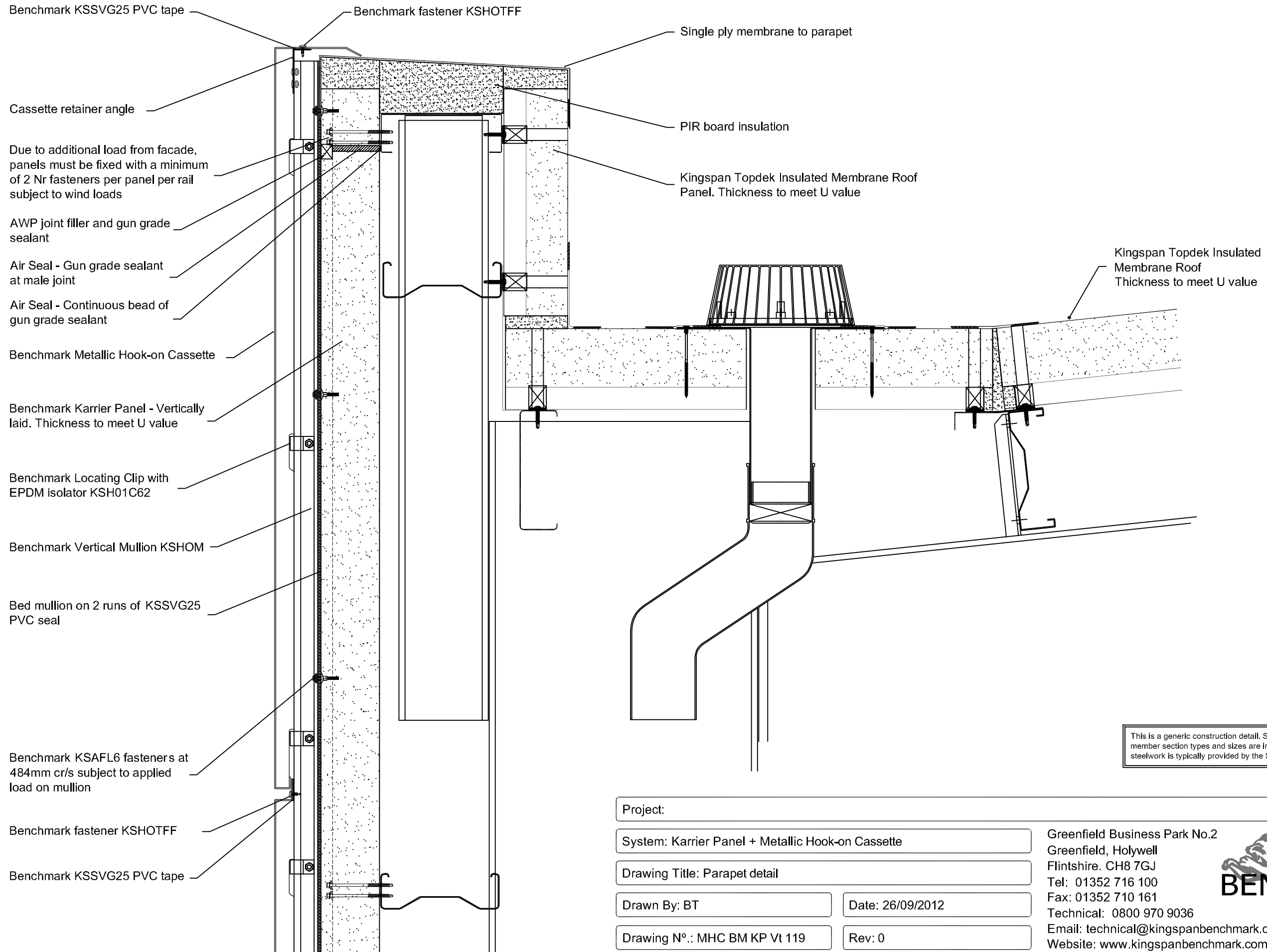


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Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Spandrel	
Drawn By: BT	Date: 26/07/2012
Drawing N°.: MHC BM KP Vt 118	Rev: 0

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Due to additional load from facade, panels must be fixed with a minimum of 2 Nr fasteners per panel per rail subject to wind loads

AWP joint filler and gun grade sealant

Air Seal - Gun grade sealant at male joint

Air Seal - Continuous bead of gun grade sealant

Benchmark Metallic Hook-on Cassette

Benchmark Karrier Panel - Vertically laid. Thickness to meet U value

Benchmark Locating Clip with EPDM isolator KSH01C62

Benchmark Vertical Mullion KSHOM

Bed mullion on 2 runs of KSSVG25 PVC seal

Benchmark KSAFL6 fasteners at 484mm cr/s subject to applied load on mullion


Benchmark fastener KSHOTFF

Benchmark KSSVG25 PVC tape

This is a generic construction detail. Supporting (secondary) steelwork member section types and sizes are indicative only. Secondary steelwork is typically provided by the Structural Steelwork Contractor.

Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Parapet detail	
Drawn By: BT	Date: 26/09/2012
Drawing N°.: MHC BM KP Vt 119	Rev: 0

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Benchmark Vertical Mullion  
KSHOM

Bed Mullion on 2 runs  
of KSSVG25 PVC tape

Benchmark Metallic  
Hook-on Cassette

Benchmark KSAFL6 fasteners  
at nominal 484mm staggered  
cr/s subject to applied load on  
mullion

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Gun grade butyl rubber  
sealant to vertical panel joint

Seal flashing to face of panel  
with 20 x 3 butyl rubber seal and  
gun grade butyl rubber pointing

Window head flashing  
(panel)

Fire rated canister applied  
insulation to fill any gaps to  
maintain continuity of insulation

Window head flashing  
(facade)

Jamb cassette return (beyond)

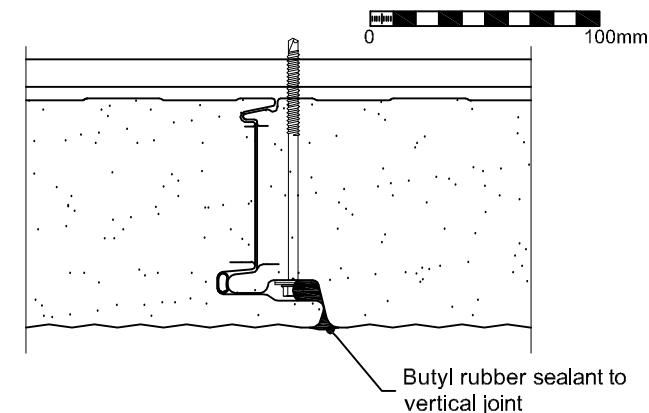
Gun grade butyl rubber sealant  
taken across panel joint

Benchmark Karrier Panel -  
Vertically laid  
Thickness to meet U value

Air Seal - Gun grade sealant  
at male joint

Air Seal - Continuous bead  
of gun grade sealant

Due to additional load from facade,  
panels must be fixed with a minimum of 2 No.  
fasteners per panel per rail subject to wind  
load



**Vertical Joint Detail at Window Head**

Internal finish to Architect's design

PIR board insulation

Window fixed with ferrules

Window by others

Weather seal by window installer

This is a generic construction detail. Supporting  
(secondary) steelwork member section types and  
sizes are indicative only. Secondary steelwork is  
typically provided by the Structural Steelwork  
Contractor.

**Note**

**Vertical panel joints above window head flashing  
to be sealed with butyl rubber sealant (see detail).**

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Head

Drawn By: BT

Date: 19/11/2012

Drawing N°: MHC BM KP Vt 120

Rev: 0

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Benchmark Vertical Mullion  
KSHOM

Benchmark Metallic  
Hook-on Cassette

Gun grade butyl rubber  
sealant to vertical panel joint

External Window trim  
with sealed butt strap joints

10 (nom)

Fire rated canister applied  
insulation to fill any gaps to  
maintain continuity of insulation

Weather Seal by Window Installer

Gun grade butyl rubber sealant  
taken across panel joint

Benchmark Karrier Panel -  
Vertically laid  
Thickness to meet U value

Air Seal - Gun grade sealant  
at male joint

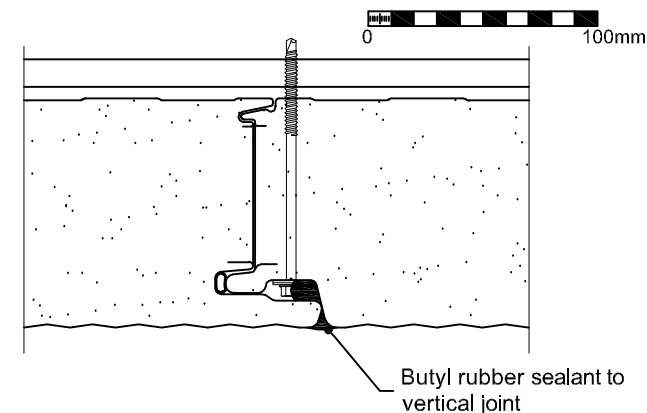
Air Seal - Continuous bead  
of gun grade sealant

Due to additional load from facade,  
panels must be fixed with a minimum of 2 No.  
fasteners per panel per rail subject to wind  
load

PIR Board Insulation

Window Fixed With Ferrules

Window By Others



**Vertical Joint Detail at Window Head**

This is a generic construction detail. Supporting  
(secondary) steelwork member section types and  
sizes are indicative only. Secondary steelwork is  
typically provided by the Structural Steelwork  
Contractor.

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Head

Drawn By: AE

Date: 16/05/2013

Drawing N°: MHC BM KP Vt 121

Rev: 0

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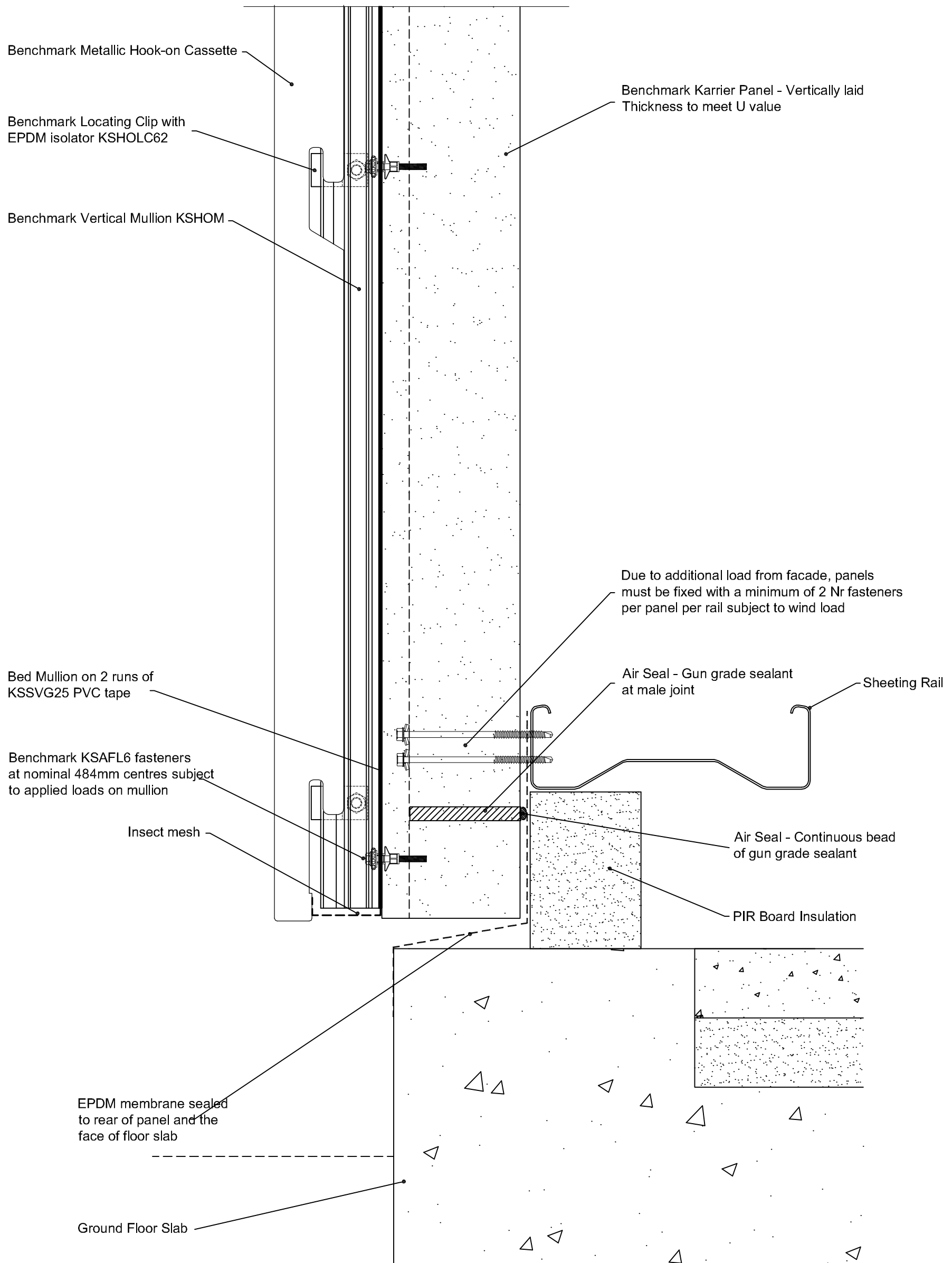


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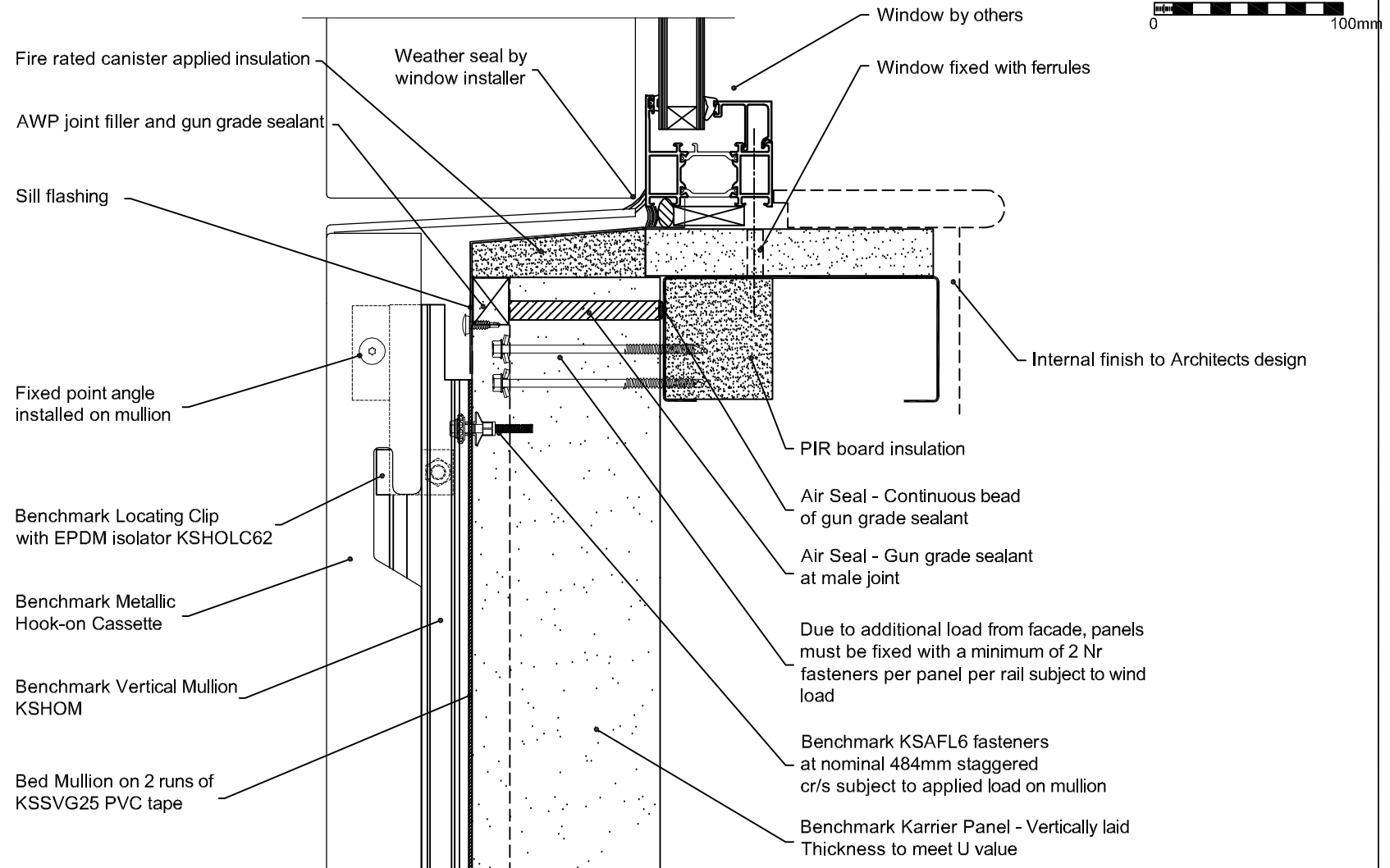
0 100mm



Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Drip Detail with no Drip Trim	
Drawn By: AE	Date: 13/08/2013
Drawing N°.: MHC BM KP Vt 122	Rev: 0

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Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Window Sill

Drawn By: AE

Date: 13/08/2013

Drawing N°: MHC BM KP Vt 123

Rev: 0

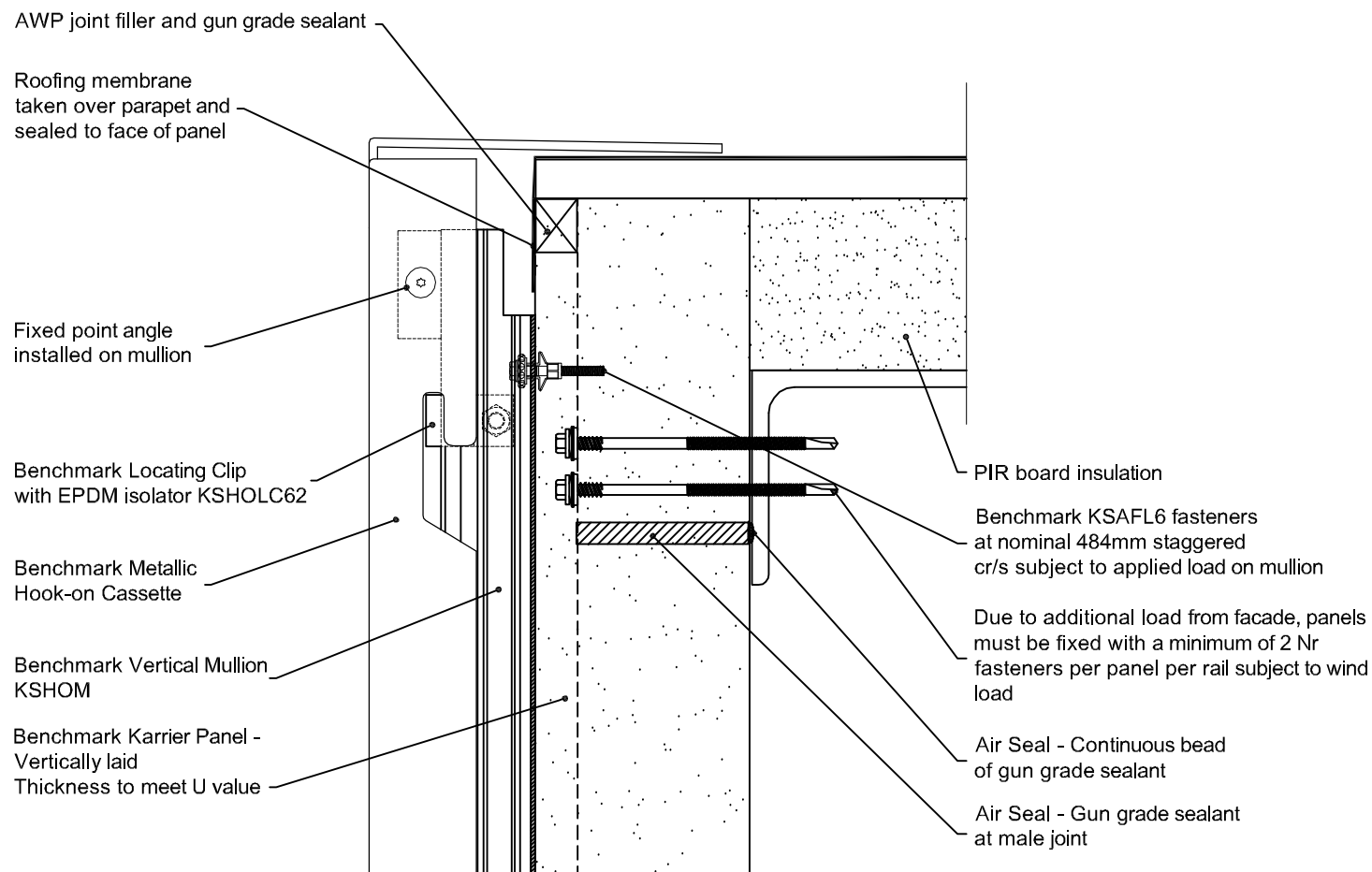
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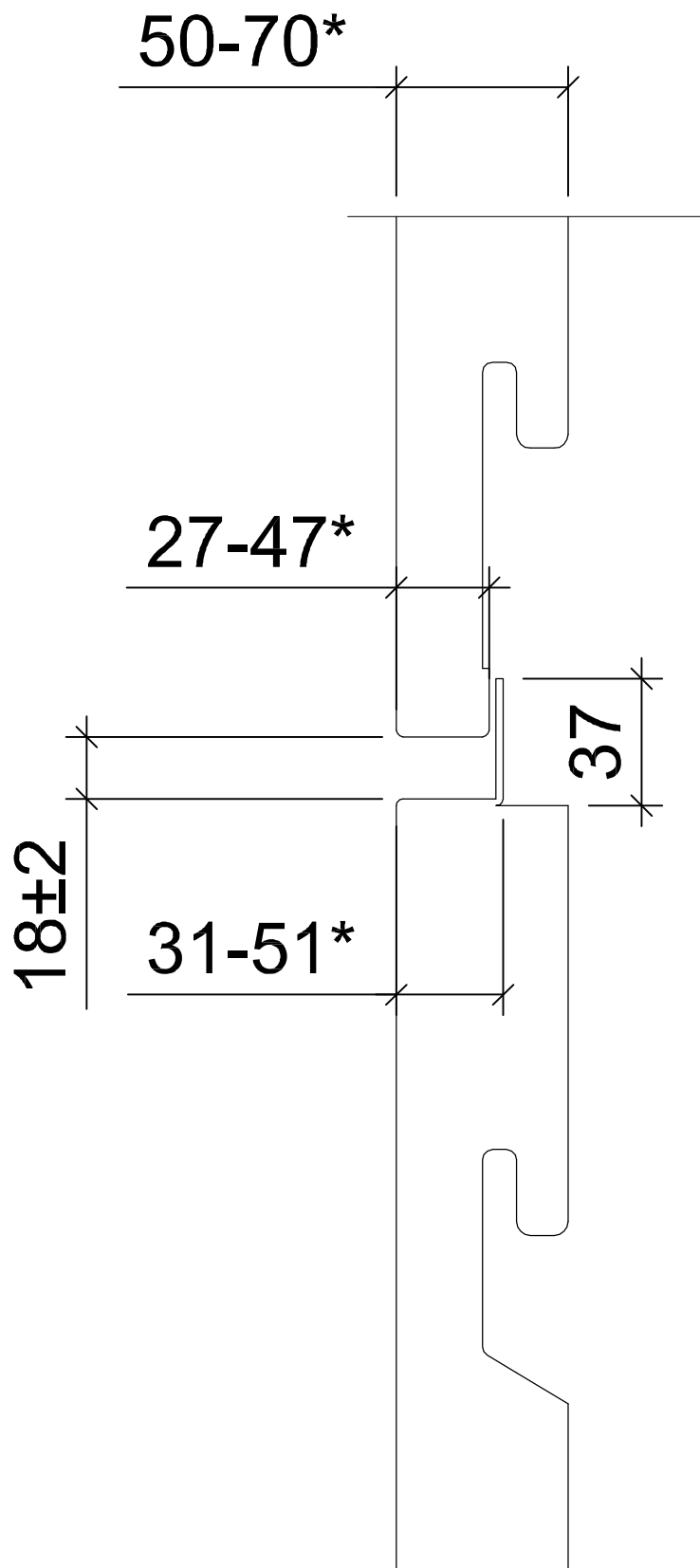
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This is a generic construction detail. Supporting (secondary) steelwork member section types and sizes are indicative only. Secondary steelwork is typically provided by the Structural Steelwork Contractor.

Project:			
System: Karrier Panel + Metallic Hook-on Cassette		Greenfield Business Park No.2 Greenfield, Holywell Flintshire, CH8 7GJ Tel: 01352 716 100 Fax: 01352 710 161 Technical: 0800 970 9036 Email: <a href="mailto:technical@kingspanbenchmark.com">technical@kingspanbenchmark.com</a> Website: <a href="http://www.kingspanbenchmark.com">www.kingspanbenchmark.com</a>	
Drawing Title: Parapet with no Parapet Caping		By Kingspan © Kingspan 2013	
Drawn By: AE	Date: 13/08/2013		
Drawing N°: MHC BM KP Vt 124	Rev: 0		





\* Subject to wind loads

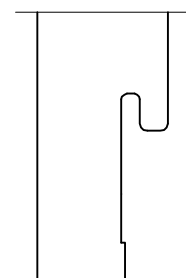
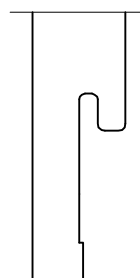
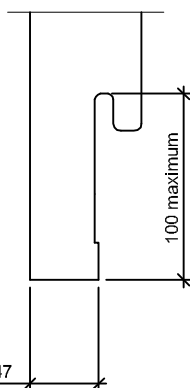
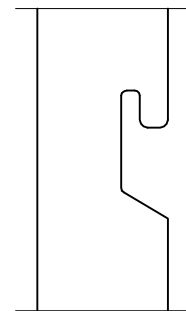
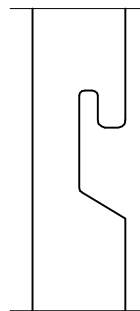
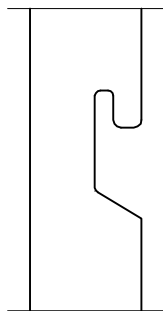
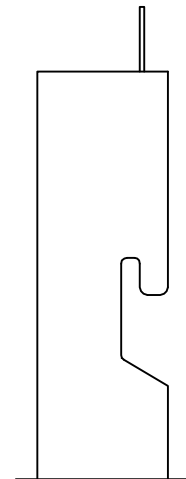
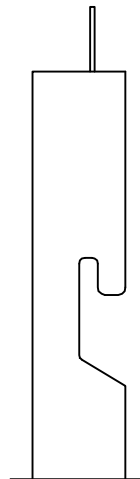
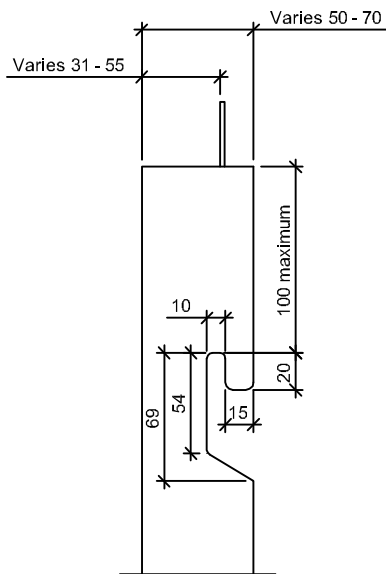
Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Cassette Joint Detail	
Drawn By: AE	Date: 19/09/2013
Drawing N°: MHC BM KP Vt 125	Rev: 0

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Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Cassette Hook and Flange Details

Drawn By: BT

Date: 25/11/2013

Drawing N°: MHC BM KP Vt 126

Rev: A

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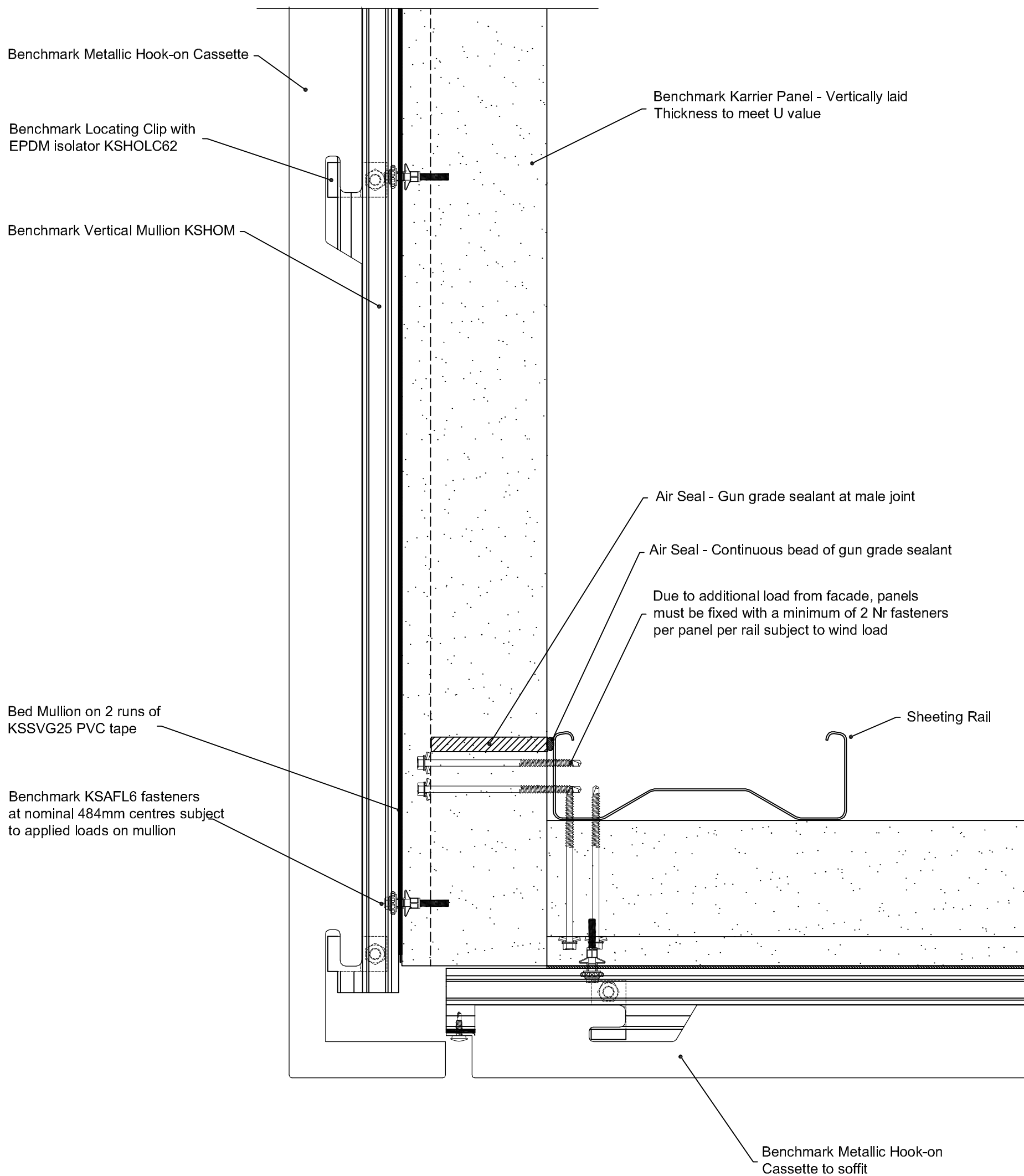


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0 100mm



Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Drip Detail + Soffit

Drawn By: AE

Date: 26/07/2012

Drawing N°.: MHC BM KP Vt 200

Rev: 0

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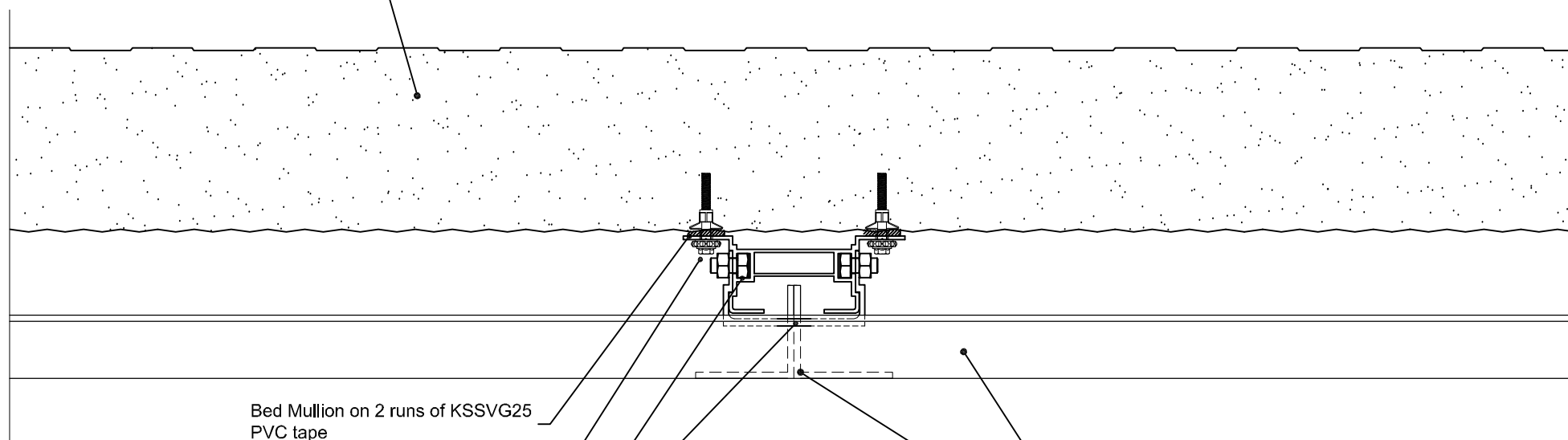


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Benchmark Karrier Panel - Vertically laid  
Thickness to meet U value



Bed Mullion on 2 runs of KSSVG25  
PVC tape

Benchmark KSAFL6 fasteners at  
484mm staggered cr/s subject to  
applied load on mullion

Benchmark Vertical Mullion KSHOM

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Benchmark Metallic Hook-on Cassette

Factory fitted stiffener

Project:	
System: Karrier Panel + Metallic Hook-on Cassette	
Drawing Title: Cassette Stiffener Detail	
Drawn By: AE	Date: 18/04/2012
Drawing N°: MHC BM KP Vt 201	Rev: 0

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0 100mm

Benchmark Metallic  
Hook-on Cassette

Benchmark Vertical  
Mullion KSHOM

Bed Mullion on 2 runs  
of KSSVG25 PVC tape

Benchmark KSAFL6  
fasteners at 484mm cr/s  
subject to applied load  
on mullion

Benchmark Locating  
Clip with EPDM isolator  
KSHOLC62

Benchmark KSSVG25  
PVC tape

**Movement  
required**

Benchmark fastener  
KSHOTFF

EPDM Membrane

Benchmark Locating Clip  
with EPDM isolator KSHOLC62

Benchmark Metallic  
Hook-on Cassette

Benchmark Vertical Mullion  
KSHOM

Bed Mullion on 2 runs of  
KSSVG25 PVC tape

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Air seal - Gun grade  
sealant at male joint

Air seal - EPDM membrane

AWP joint filler and  
gun grade sealant

Slotted connection

Air seal - Gun grade  
sealant at male joint

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Movement Joint Detail

Drawn By: AE

Date: 26/07/2012

Drawing N°. MHC BM KP Vt 202

Rev: 0

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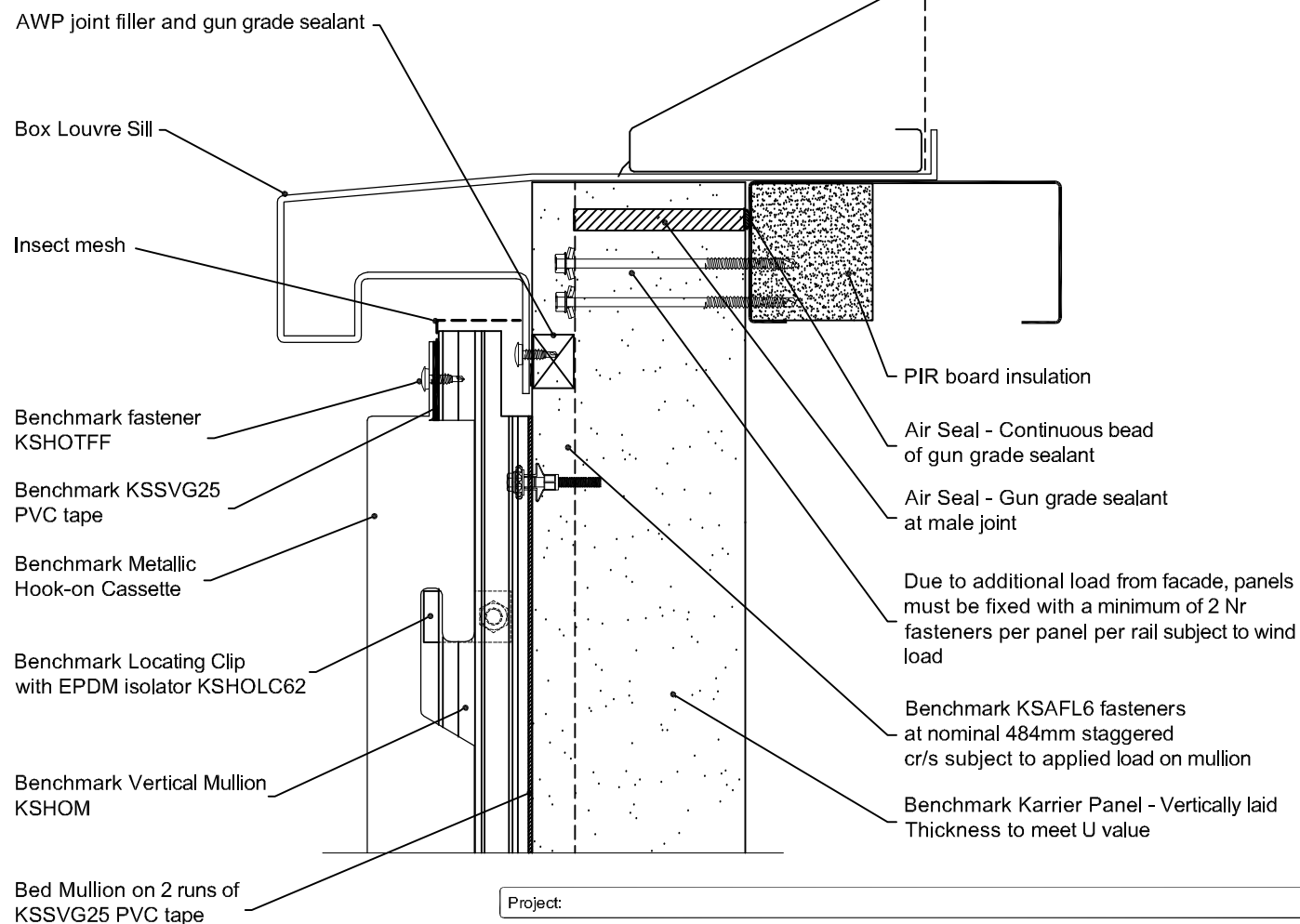
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Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Louvre Sill

Drawn By: AE

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 203

Rev: 0

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Benchmark Metallic Hook-on Cassette

Benchmark Vertical Mullion KSHOM

Bed Mullion on 2 runs of KSSVG25 PVC tape

Benchmark KSAFL6 fasteners at 484mm cr/s subject to applied load on mullion

Gun grade butyl rubber sealant to vertical panel joint

Benchmark Locating Clip with EPDM isolator KSHOLC62

Insect mesh

External drip flashing with sealed joints. Sealed to face of panel with 20 x 3 butyl rubber seal and gun grade butyl rubber pointing

10 nom

Box Louvre system

Gun grade butyl rubber sealant taken across panel joint

Benchmark Karrier Panel - Vertically laid Thickness to meet U value

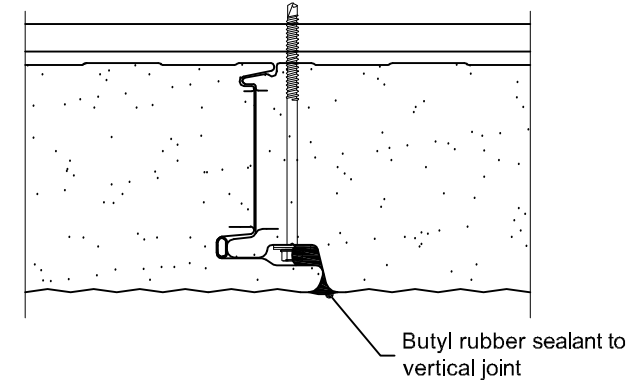
Air Seal - Gun grade sealant at male joint

Air Seal - Continuous bead of gun grade sealant

Due to additional load from facade, panels must be fixed with a minimum of 2 Nr fasteners per panel per rail subject to wind loads

PIR Insulation board

0 100mm



**Vertical Joint Detail at Louvre Head**

**Note**  
Vertical panel joints above window pod to be sealed with butyl rubber sealant (see detail).

This is a generic construction detail. Supporting (secondary) steelwork member section types and sizes are indicative only. Secondary steelwork is typically provided by the Structural Steelwork Contractor.

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Louvre Head

Drawn By: AE

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 204

Rev: 0

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Benchmark Karrier Panel - Vertically laid  
Thickness to meet U value

Low profile head fasteners  
at 484mm maximum centers

PIR Board Insulation

Air Seal - Continuous bead  
of gun grade sealant

Box Louvre system

Benchmark Metallic  
Hook-on Cassette

Bed Mullion on 2 runs of KSSVG25  
PVC tape

Benchmark KSAFL6 fasteners at  
484mm staggered cr/s subject to  
applied load on mullion

Benchmark Vertical Mullion KSHOM

Benchmark Locating Clip with  
EPDM isolator KSHOLC62

Benchmark Vertical End Mullion  
KSHOEM

Benchmark End Locating Clip  
with EPDM isolator KSHOELC30

Bed Mullion on 1 run of SVG2540 PVC tape

Benchmark KSAFL6 fasteners at 484mm cr/s  
subject to applied load on mullion

Project:

System: Karrier Panel + Metallic Hook-on Cassette

Drawing Title: Louvre Jamb

Drawn By: AE

Date: 26/07/2012

Drawing N°: MHC BM KP Vt 205

Rev: 0

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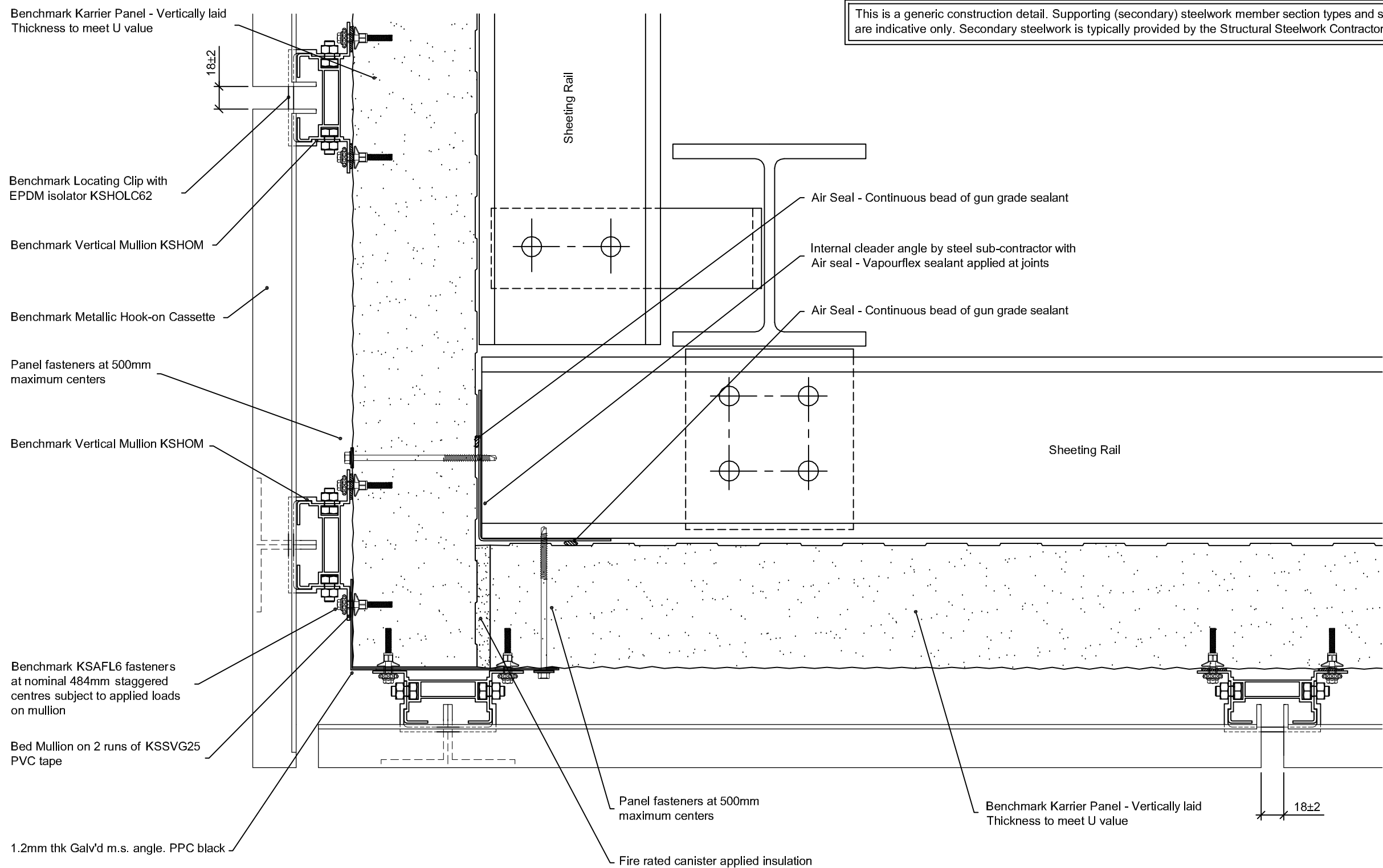
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Corner cassette leg lengths may need to be site measured to cater for construction tolerances

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System: Karrier Panel + Metallic Hook-on Cassette		 © Kingspan 2013	
Drawing Title: External Corner			
Drawn By: BT	Date: 08/07/2013		
Drawing N°.: MHC BM KP Vt 206	Rev: 0		