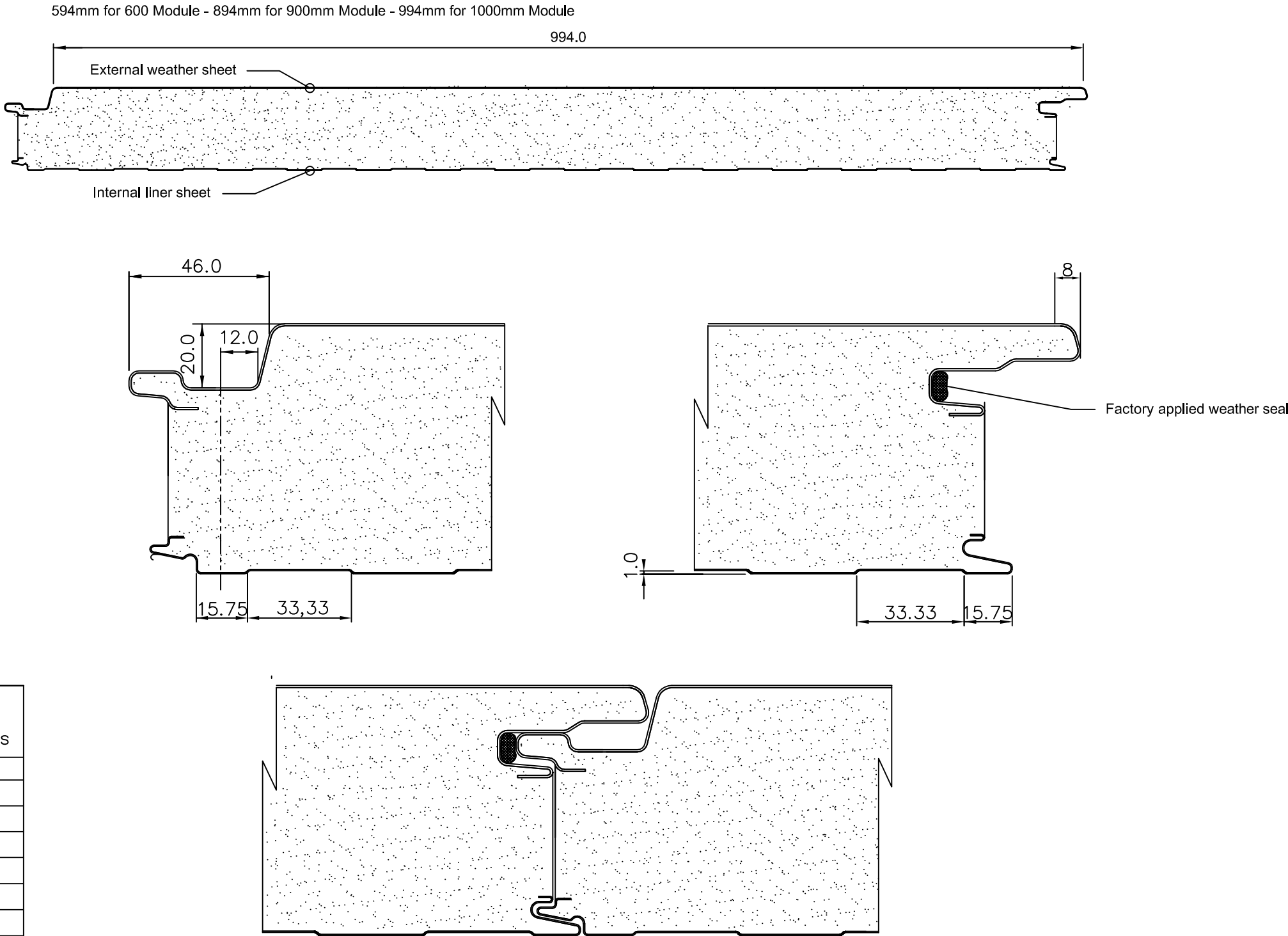


KS 600 / 900 /1000 Optimo

Panel Dimensions



Available Panel Thicknesses
45
60
70
80
100
120
140
150

Notes:

Rev	Description	Chkd	Date



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Client

Project

Drawing

KS1000 Optimo
Profile Drawing

Status

Drawn by
RL

Checked by
JP

Date
12/12/15

Drawing Number
OptimoHz15001

Revision

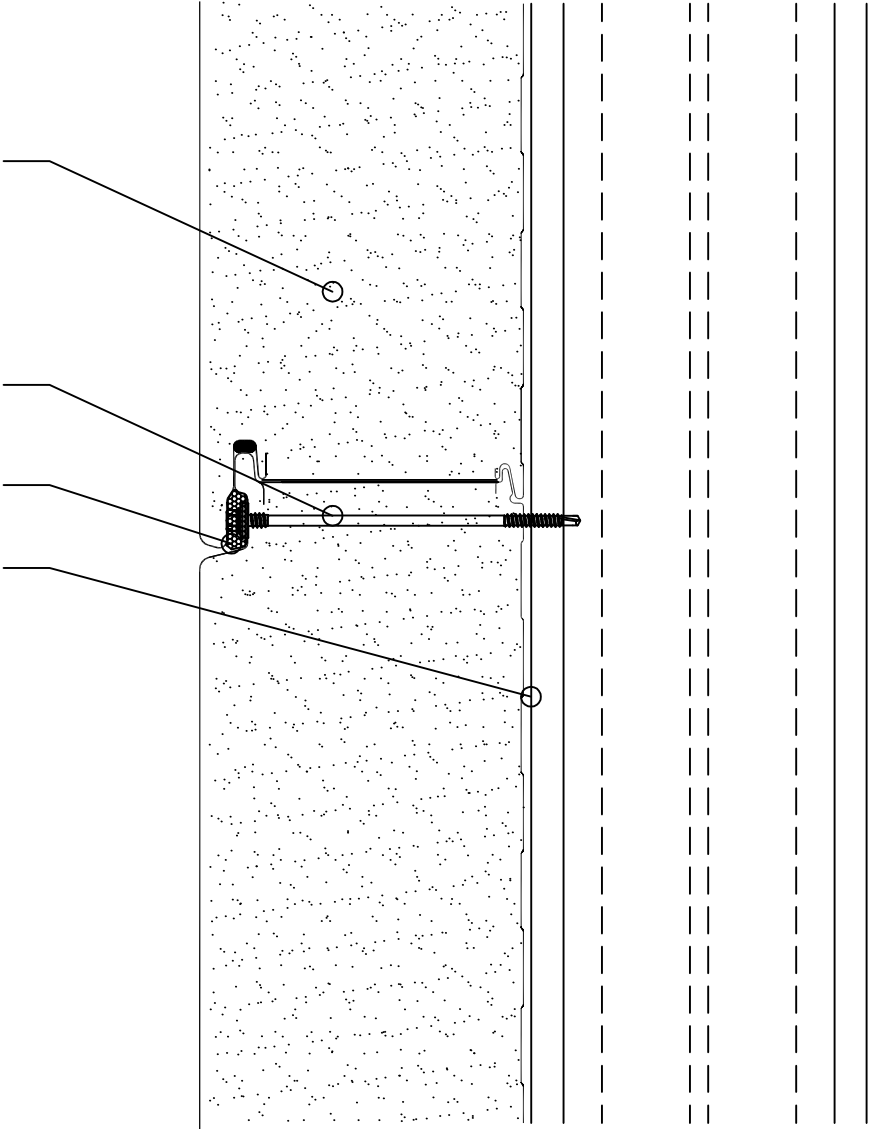
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KS1000 Optimo / LPCB insulated wall panel horizontally laid

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer

AWP joint filler bedded on gun grade sealant

Kingspan Multibeam



Notes:

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Rev	Description	Chkd	Date
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Project

Drawing

KS1000 Optimo Hz
Hz Joint Fix Locations

Status

Drawn by RL	Checked by JP	Date 12/12/15
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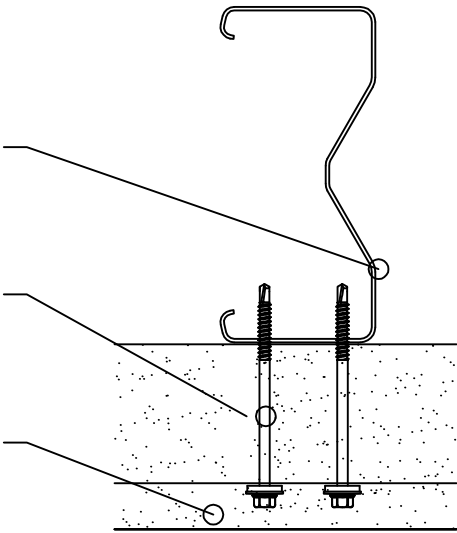
Drawing Number OptimoHz15002	Revision
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Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM bonded washers

KS1000 Optimo / LPCB insulated wall panel horizontally laid

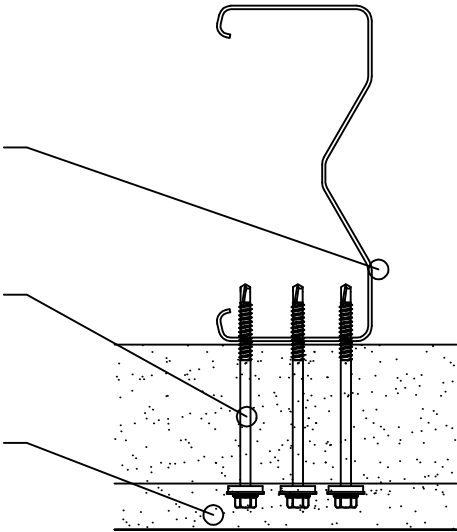


Typical 2 number panel fixings

Kingspan Multibeam

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM bonded washers

KS1000 Optimo / LPCB insulated wall panel horizontally laid



Typical 3 number panel fixings

Notes:

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Rev	Description	Chkd	Date
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Project

Drawing

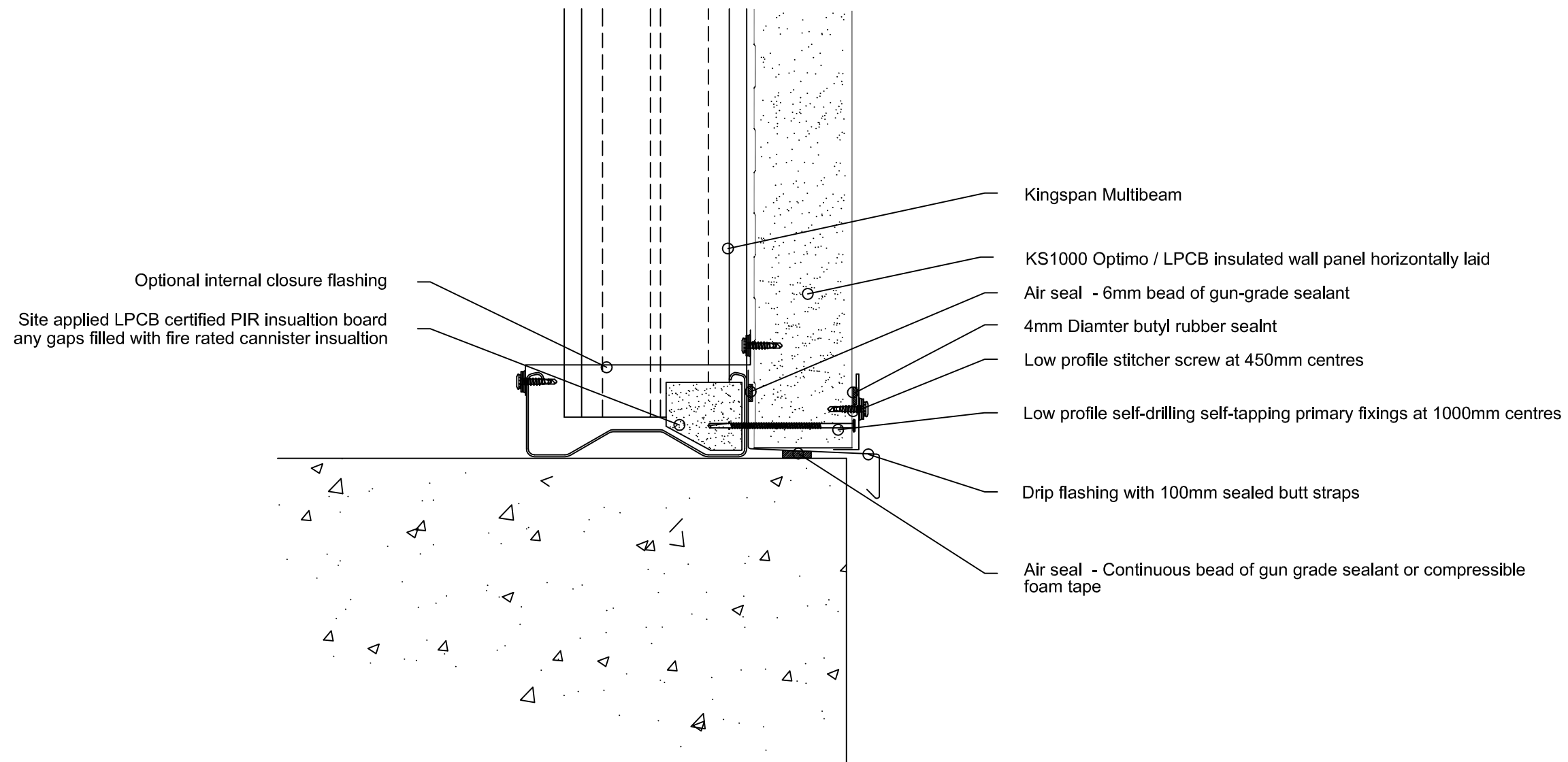
KS1000 Optimo Hz
Intermediate Fix Locations

Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15003	

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Drawing

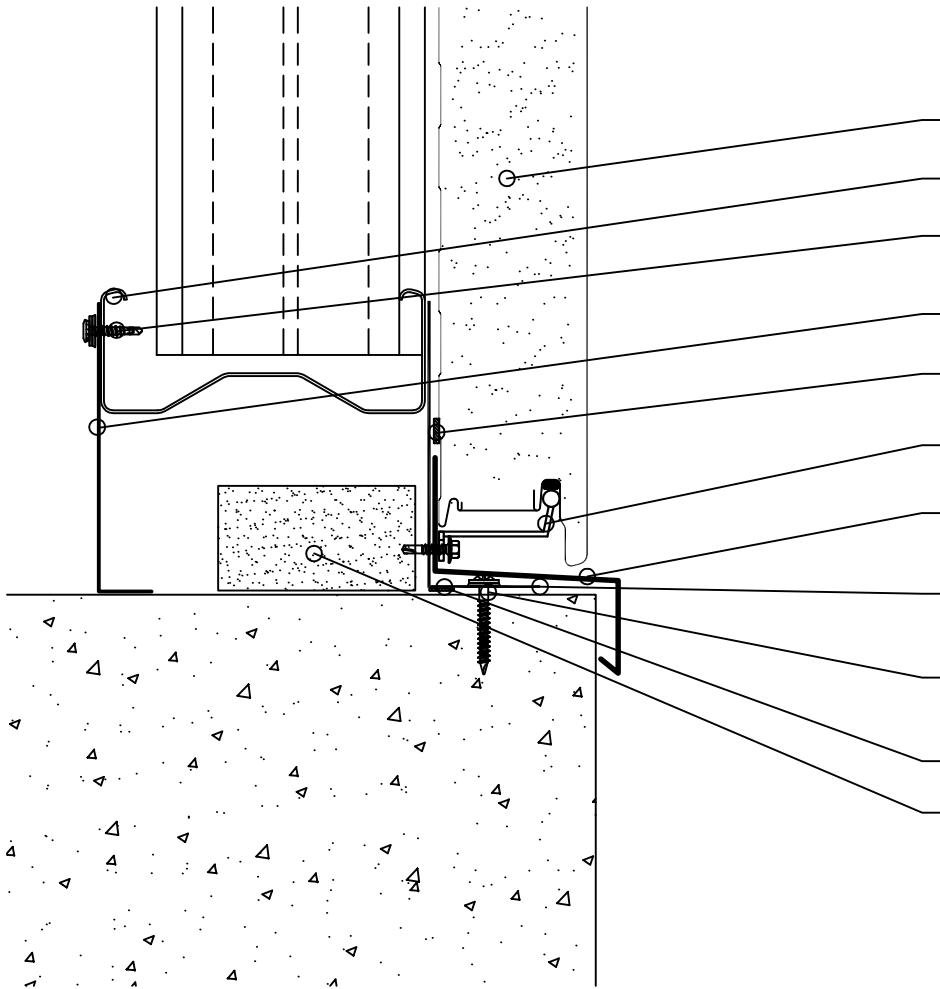
KS1000 Optimo Hz Drip to Cut Panel

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number	Revision
OptimoHz15004	

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- KS1000 Optimo / LPCB insulated wall panel horizontally laid
- Kingspan Multibeam
- Stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres
- Internal closure flashing
- Air seal - 6mm bead of gun grade sealant
- Panel bearers located at each end, and 1500mm maximum centres
- Drip flashing with 100mm sealed butt straps
- Galvanised support, any joints sealed with film back butyl tape
- Tapcon fixing with minimum non ferrous EPDM backed washer fitted at maximum 450mm centres
- Air Seal - Contionuous run of gun grade sealant or compressible foam tape
- Site applied LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

Notes:

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Rev	Description	Chkd	Date
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Project

Drawing

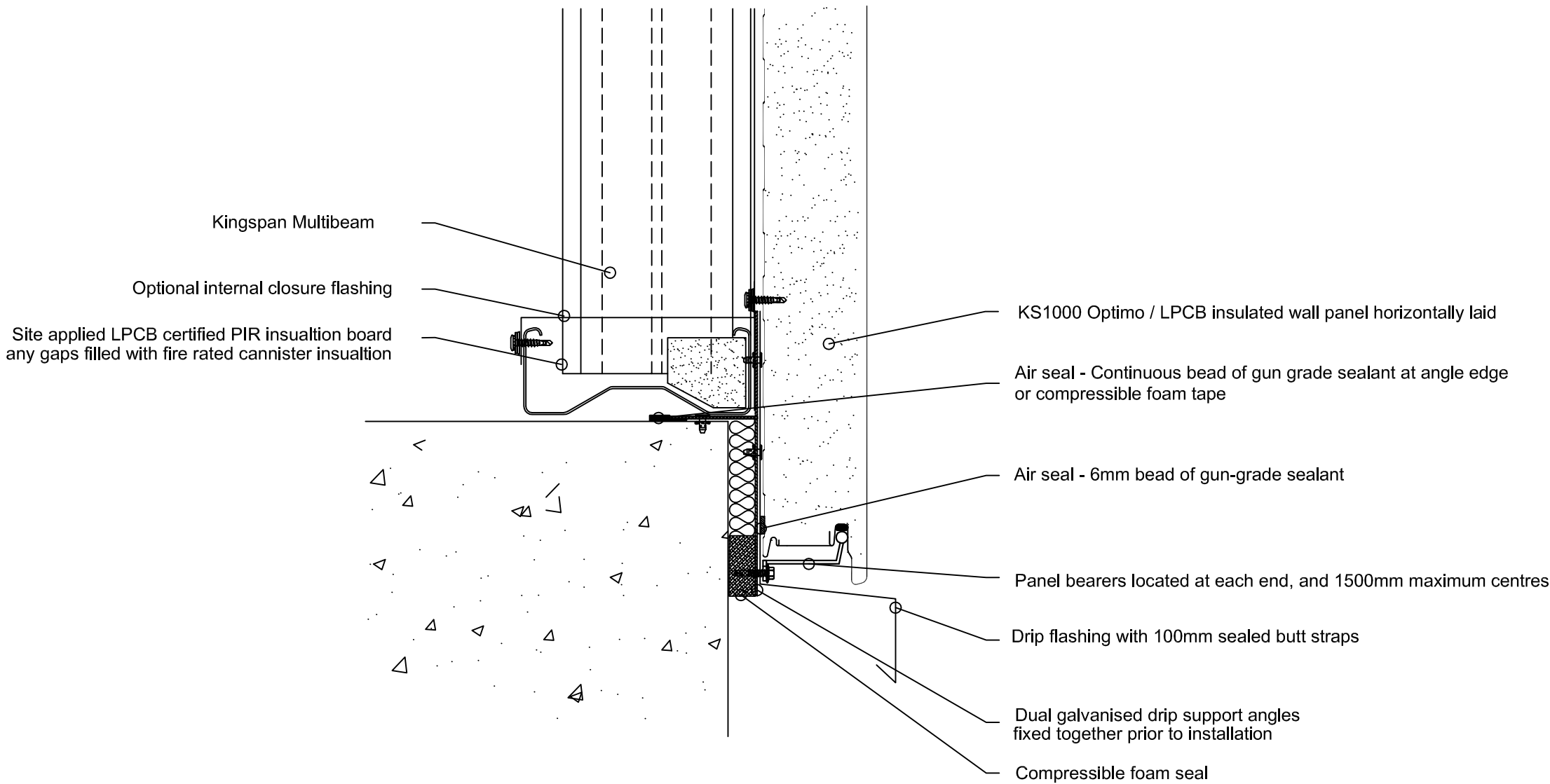
KS1000 Optimo Hz
Drip (Panel Bearer)

Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15005	

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Project

Drawing

KS1000 Optimo Hz
Drip (Overhanging)

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15006	Revision
---------------------------------	----------

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Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer

4mm Diameter butyl rubber sealant

Site applied LPCB certified insulation board

Option A vertical tophat and insert

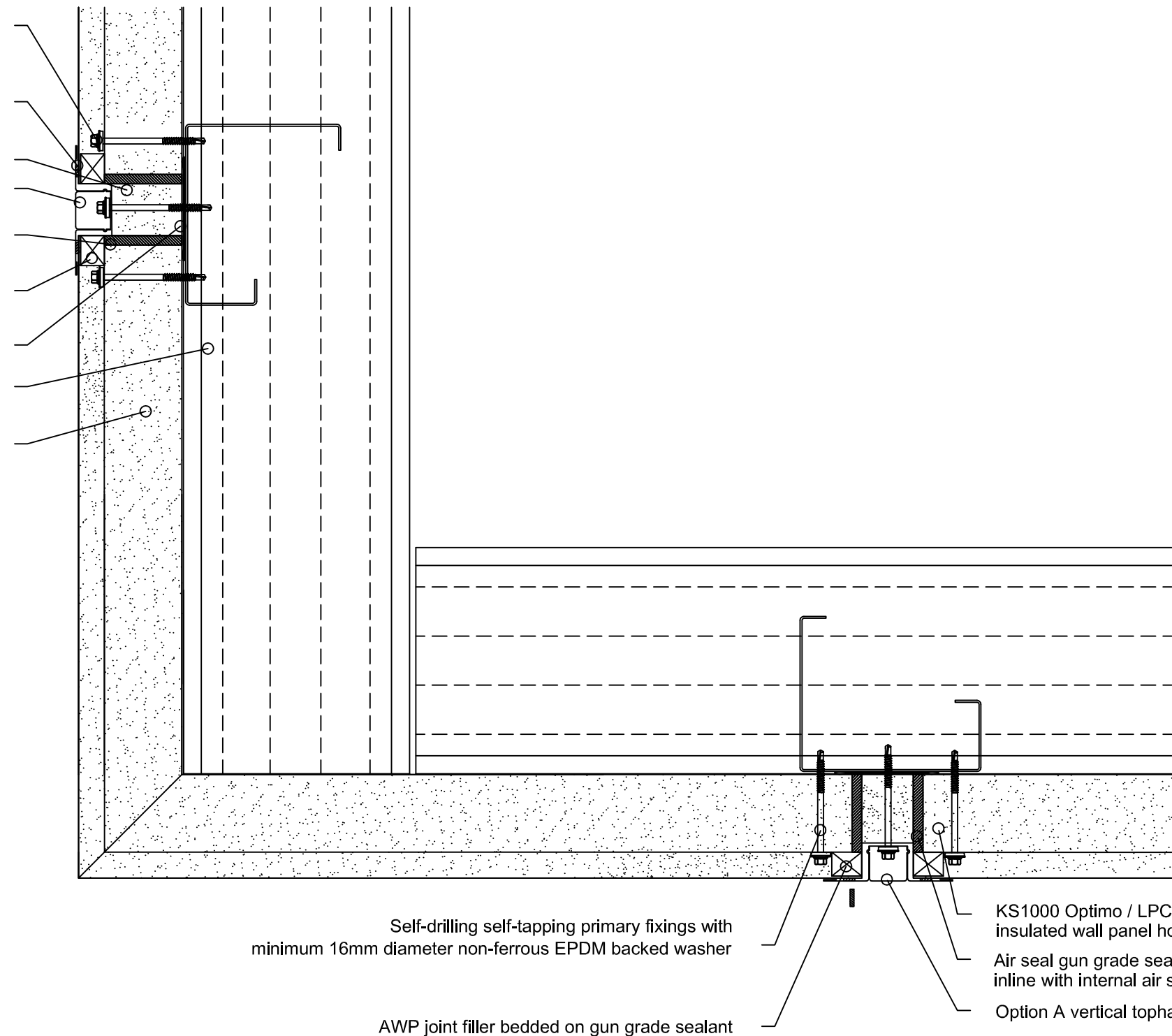
Air seal gun grade seal to male joint inline with internal air seal

AWP joint filler bedded on gun grade sealant

EPDM VJ2 bubble gasket

Kingspan Multibeam

KS1000 Optimo / LPCB insulated wall panel horizontally laid pre-formed corner unit



Pre-formed panels maximum un-supported length is 1000mm, for longer panels additional steel work is required.

Notes:

Rev	Description	Chkd	Date
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Project

Drawing

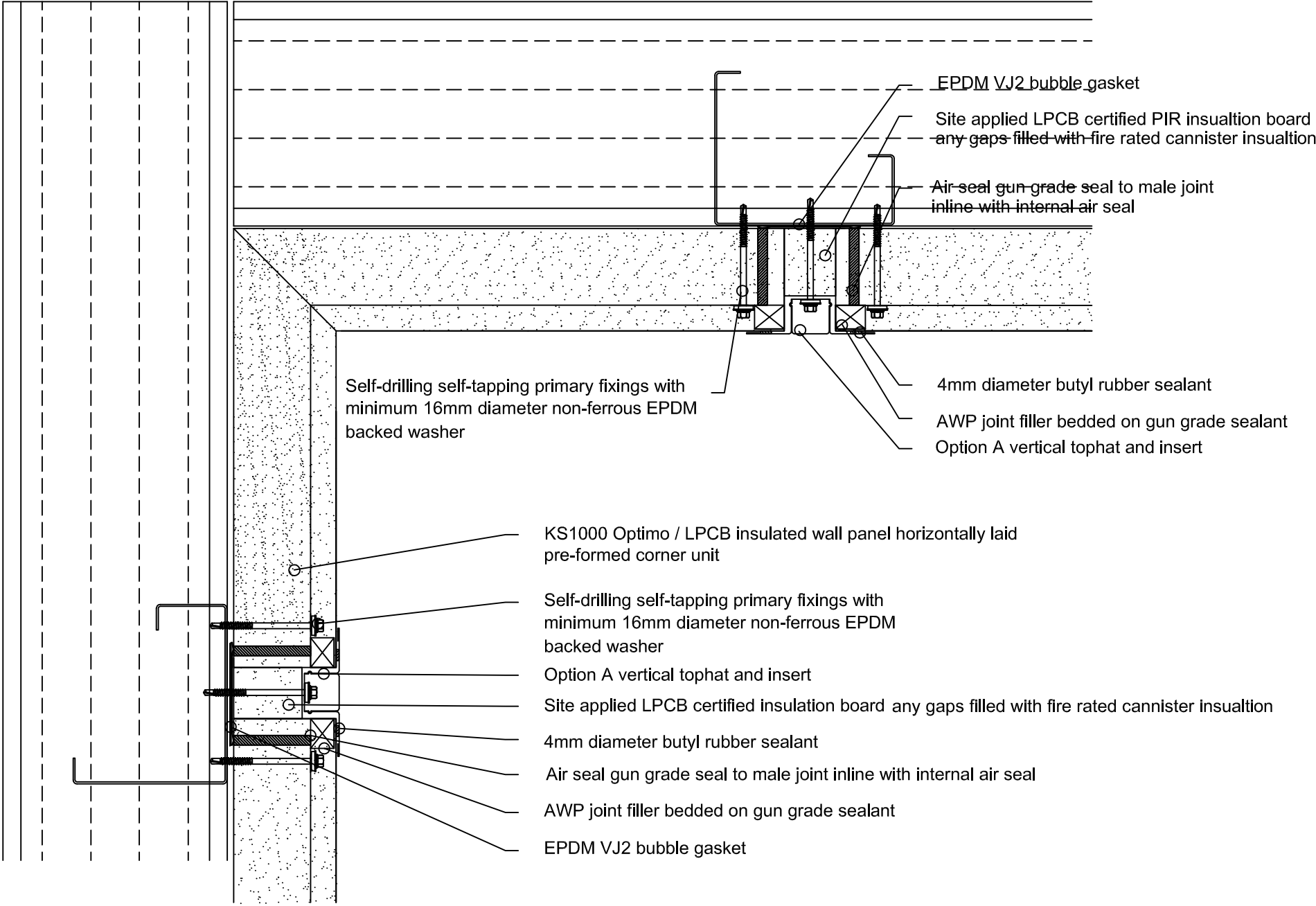
**KS1000 Optimo Hz
External Cranked Corner**

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15007	Revision
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Pre-formed panels maximum un-supported length is 1000mm, for longer panels additional steel work is required.

Notes:

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Rev	Description	Chkd	Date
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Project

Drawing

KS1000 Optimo Hz
Internal Cranked Corner

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15008	Revision
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Kingspan Multibeam

KS1000 Optimo / LPCB insulated wall panel horizontally laid

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer

Internal cleader angle with 100mm overlap sealed with film backed butyl tape or gun grade sealant

Air seal gun grade seal to male joint inline with internal air seal

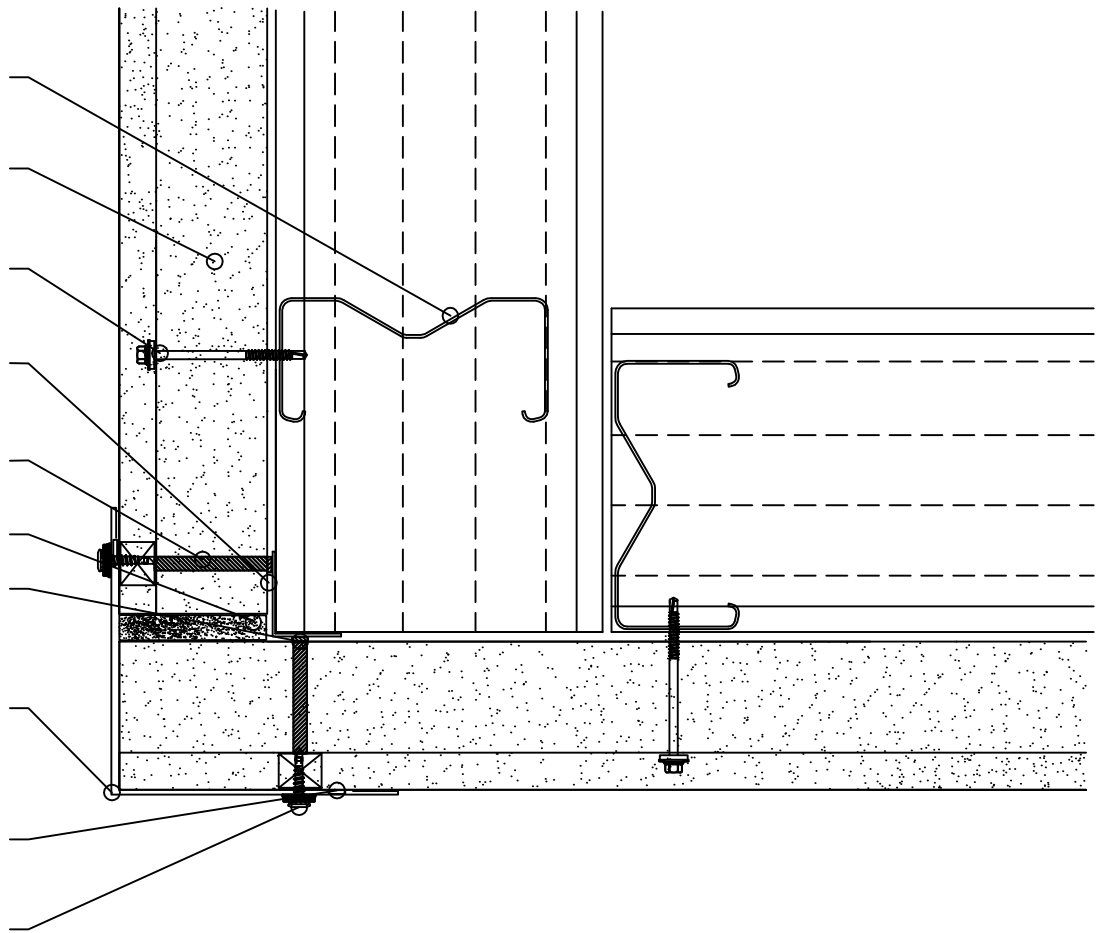
Site applied fire rated canister insualtion

Air seal - 6mm bead gun grade sealant

External corner flashing with 100mm sealed overlaps or butt strap

4mm diameter butyl rubber sealant

Low profile stitching screws with minimum 14mm diameter non-ferrous EPDM backed washer fitted at maximum 450mm centres



Notes:

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Project

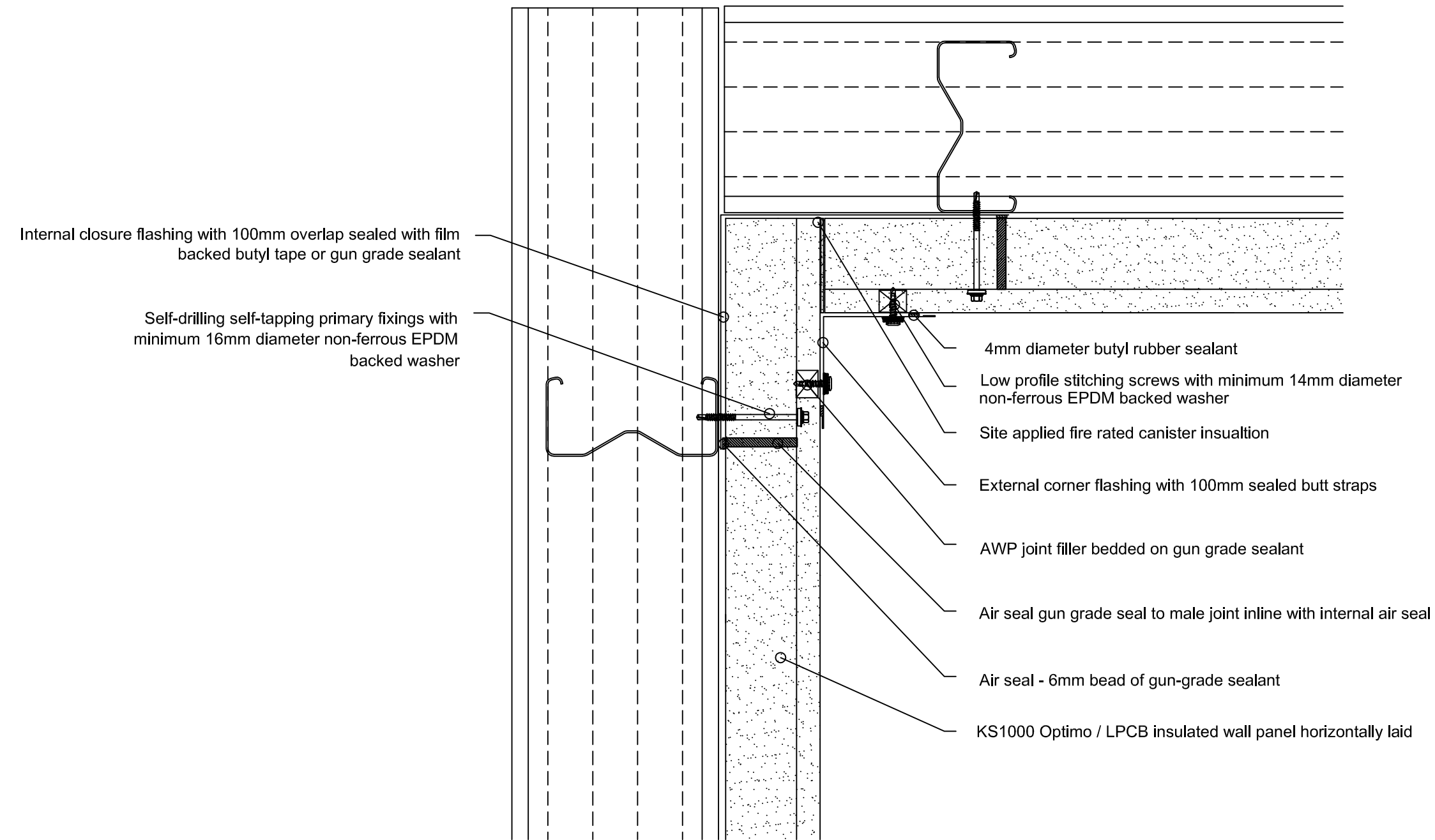
Drawing

KS1000 Optimo Hz
External Flashed Corner

Status

Drawn by RL	Checked by JP	Date 12/12/15
Drawing Number OptimoHz15009		Revision

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Drawing

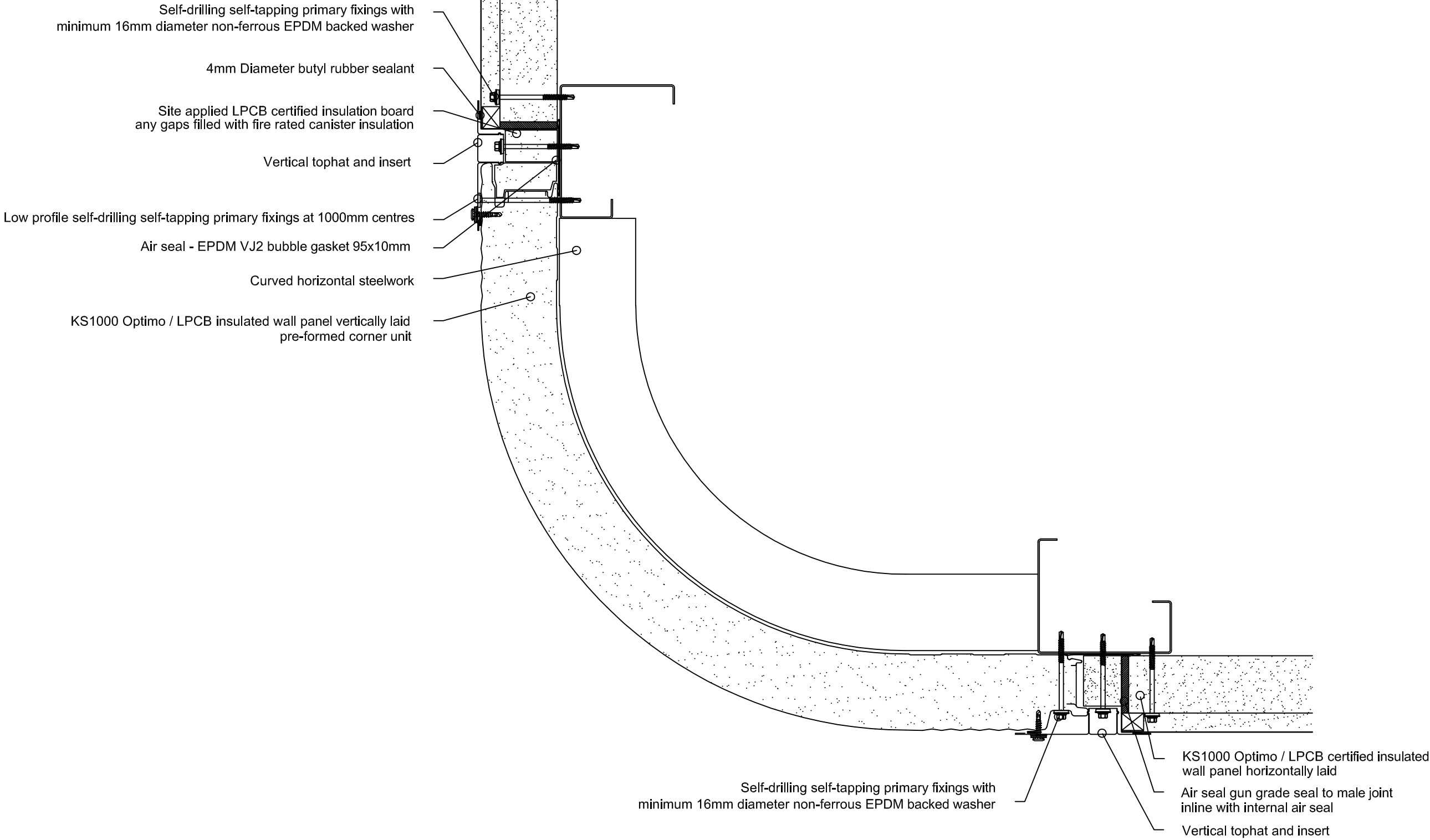
KS1000 Optimo Hz
Internal Flashed Corner

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15010	Revision
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Drawing

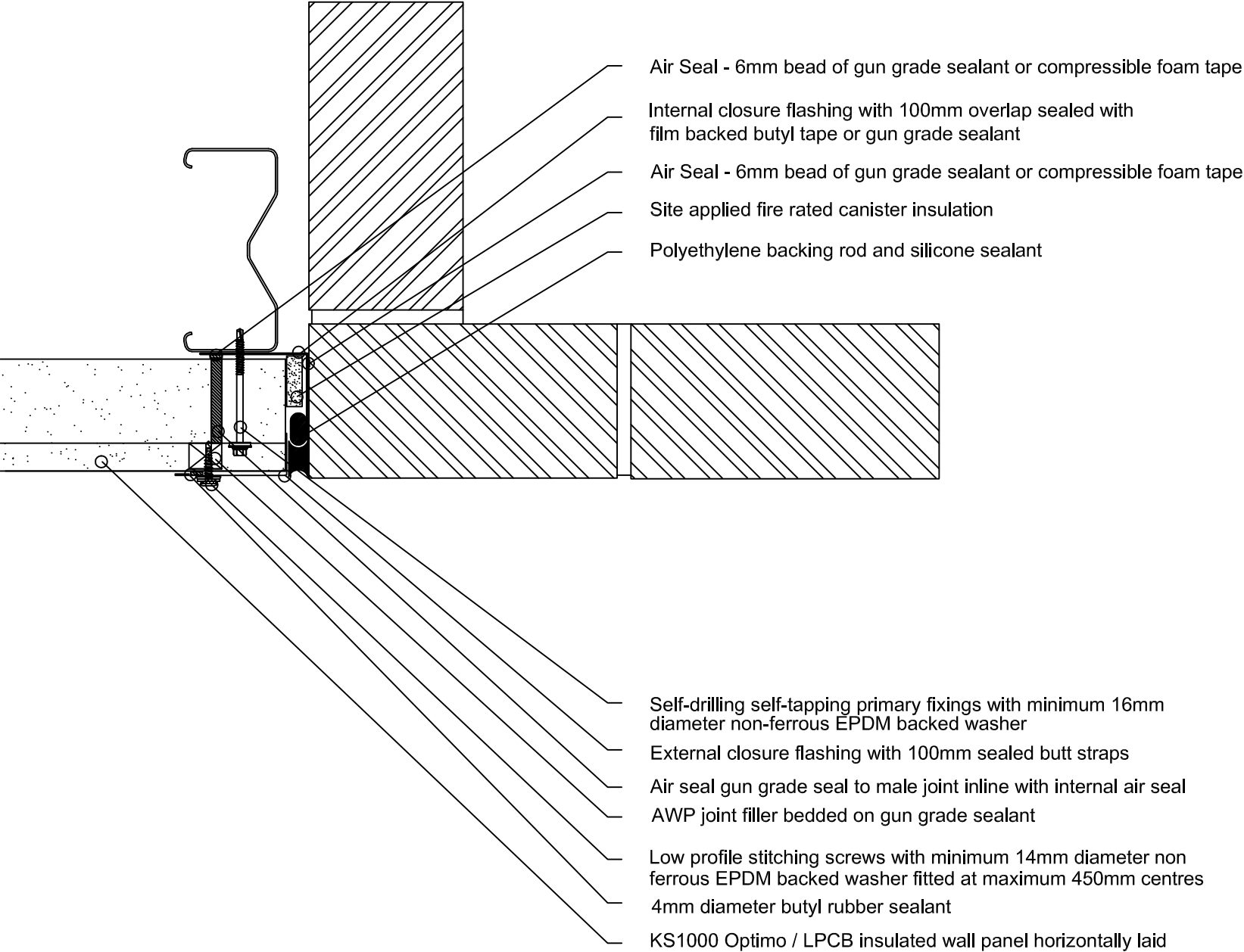
KS1000 Optimo Hz Curved Corner

Status

Drawn by	Checked by	Date
RL	JP	15/03/15

Drawing Number	Revision
Optimo15011	

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Drawing

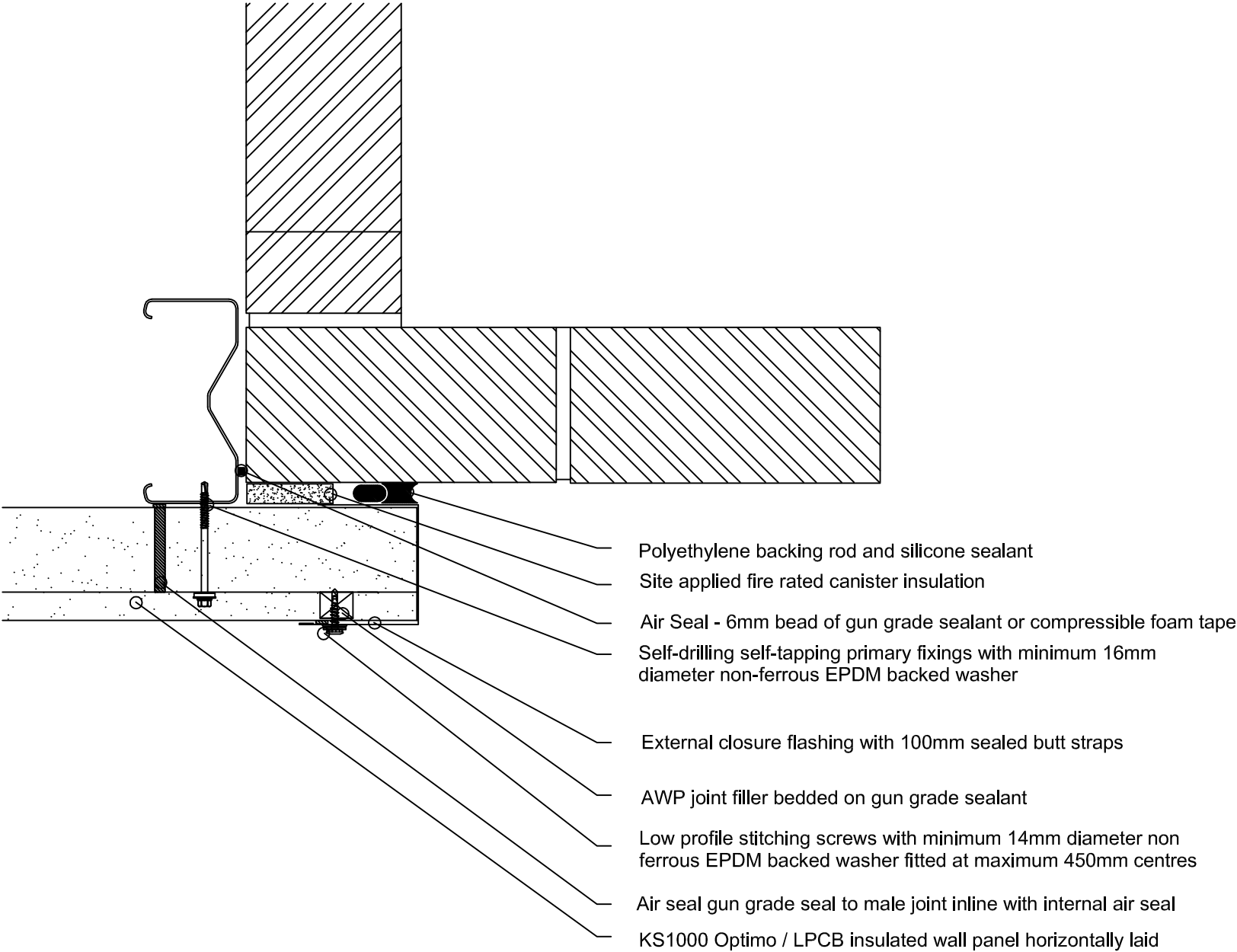
KS1000 AWP Hz
Abutment to Brick

Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15012	

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Project

Drawing

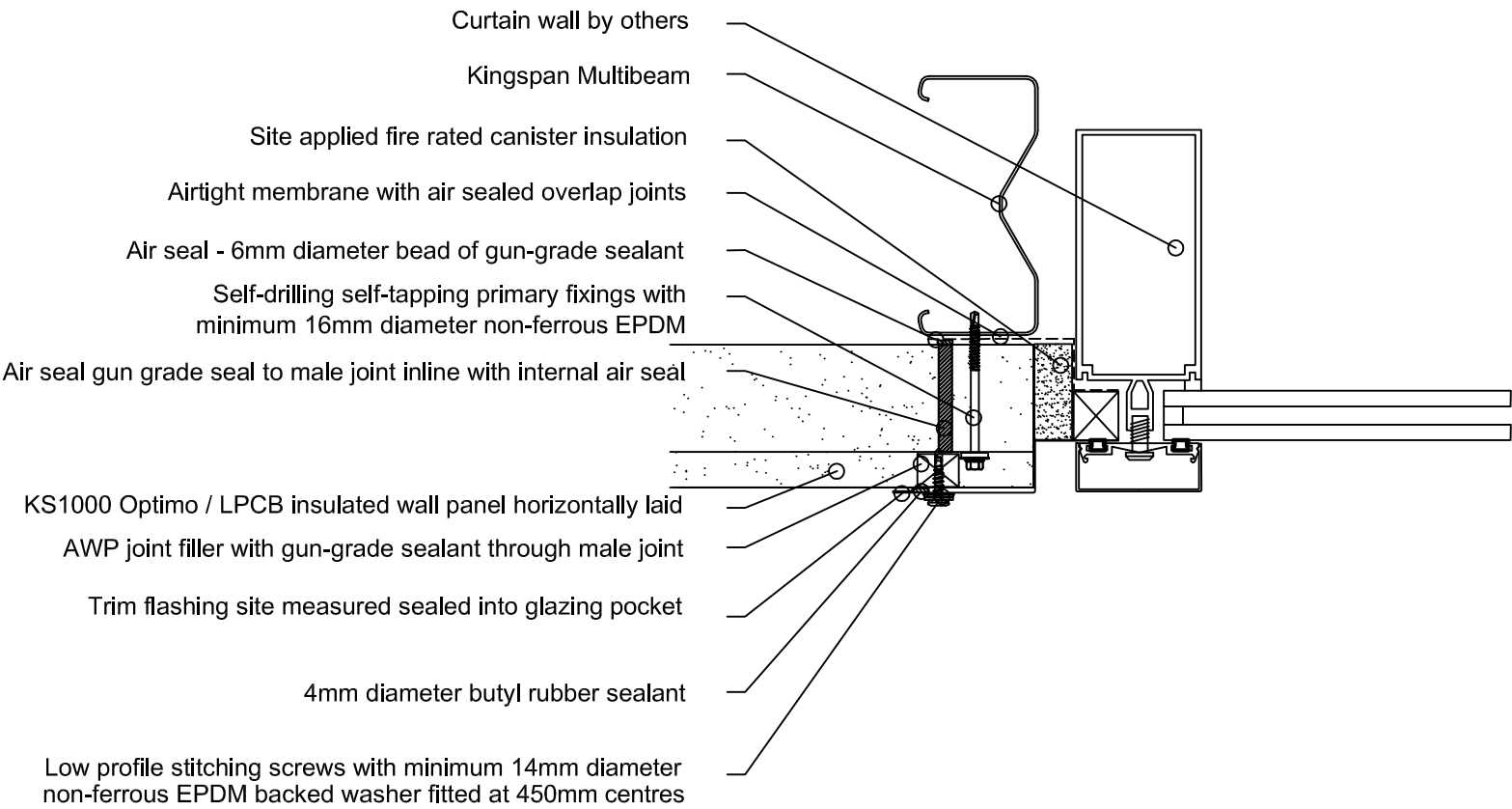
KS1000 Optimo Hz
Abutment Over Brick

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15013	Revision
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Project

Drawing

KS10000 Optimo Hz
Abutment to Curtain Wall

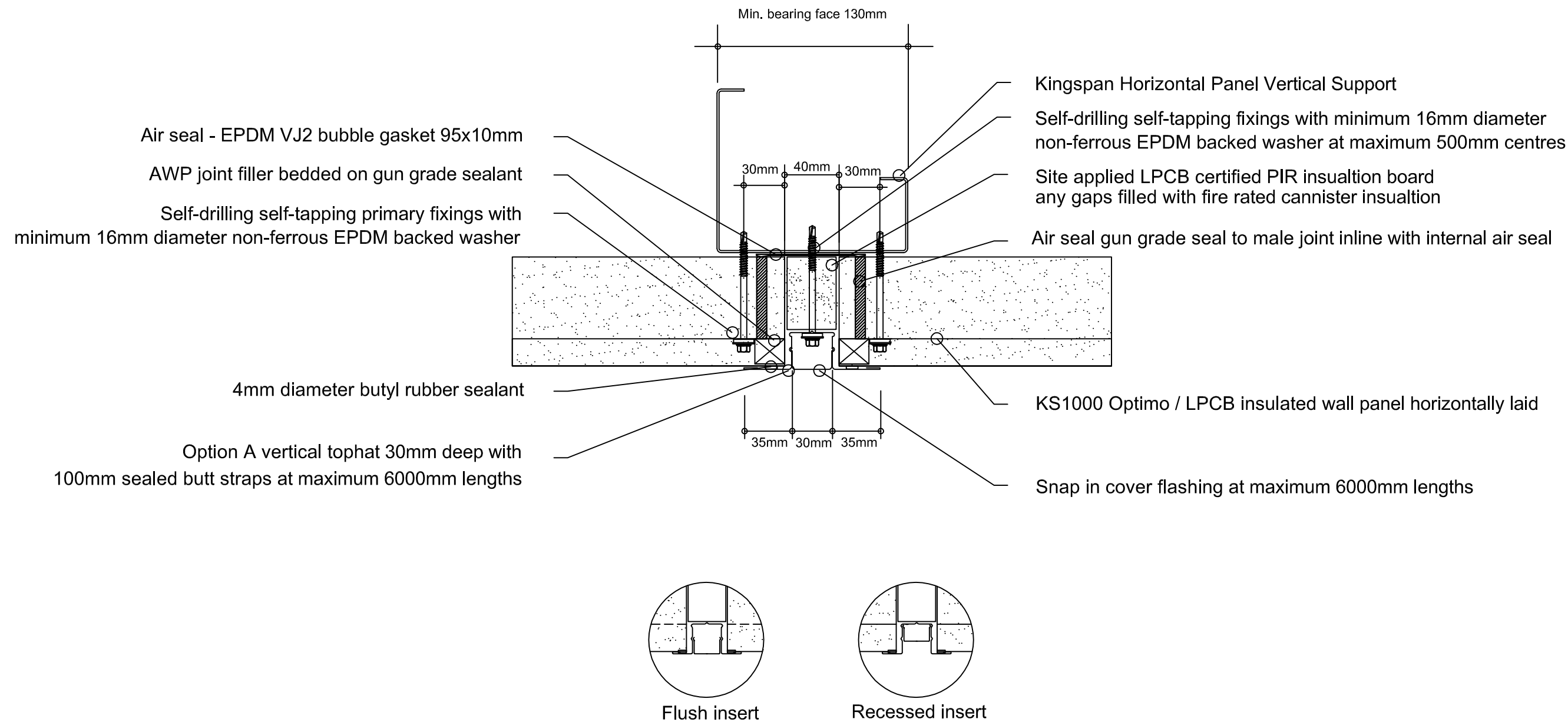
Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15014	

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Option A



Note: Secondary steelwork should be continuous, however if there is any gaps between the vertical supports which are above 20mm a flashing plate should be introduced to brige the gap - refer to Kingspan Envirocare Update 49

Notes:

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Project

Drawing

KS1000 OPT Hz
Option A Vert Joint

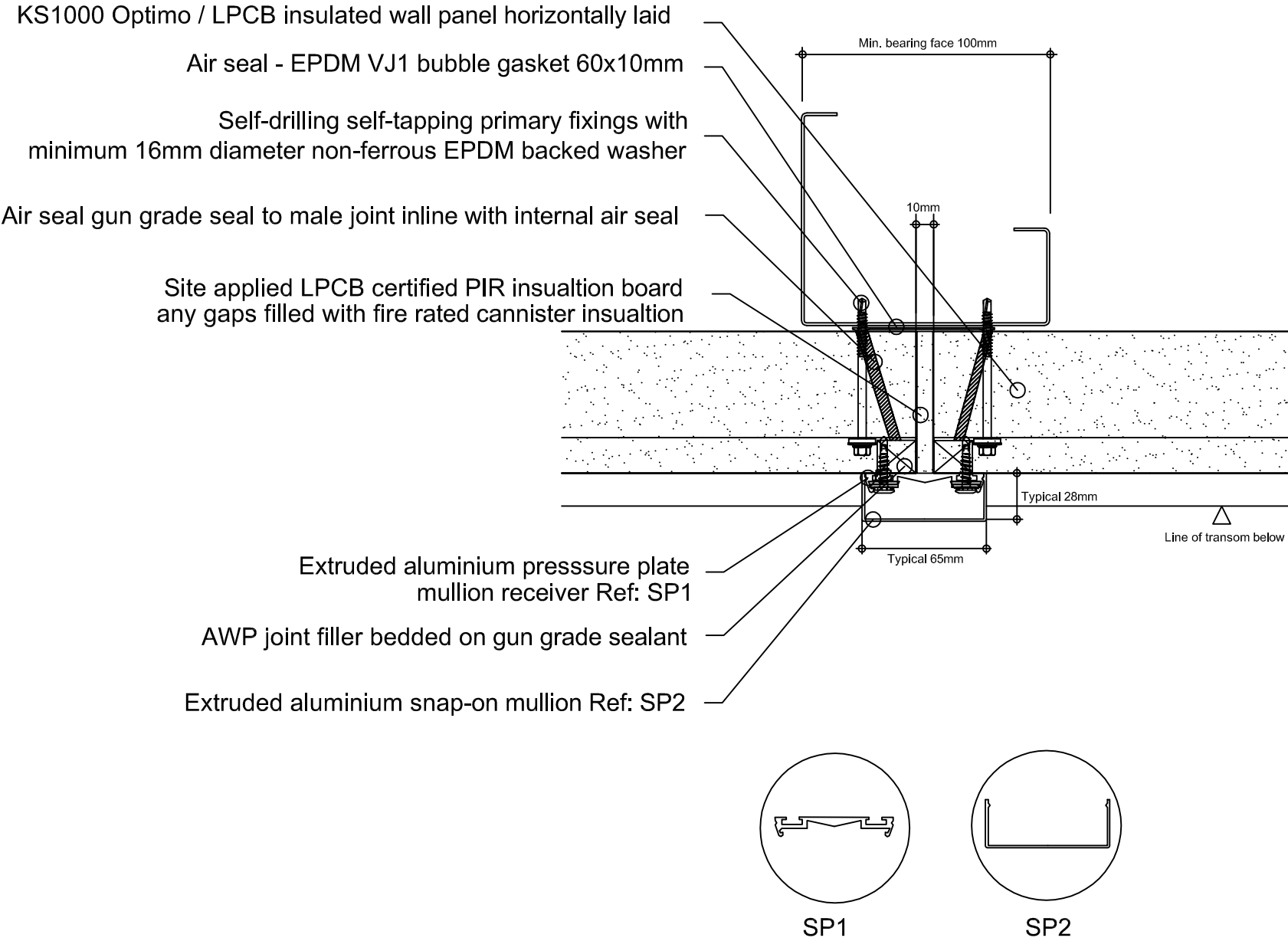
Status

Drawn by	Checked by	Date
RL	JP	11/02/15

Drawing Number	Revision
OptimoHz15015	

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Option B



Note: Secondary steelwork should be continuous, however if there is any gaps between the vertical supports which are above 20mm a flashing plate should be introduced to brige the gap - refer to Kingspan Envirocare Update 49

Notes:



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Drawing

KS1000 OPT Hz
Option A Vert Joint

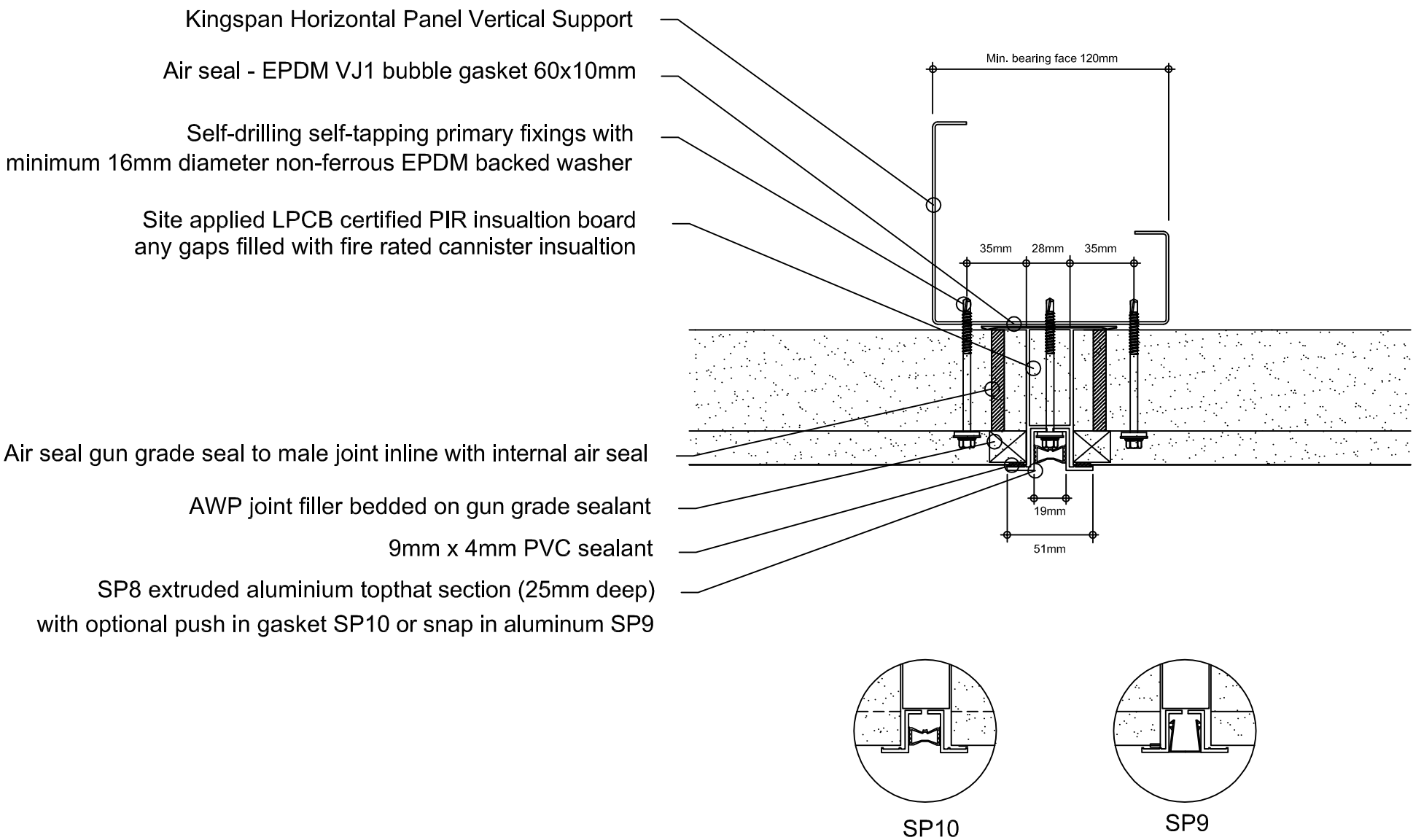
Status

Drawn by RL	Checked by JP	Date 11/02/15
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Drawing Number OptimoHz15016	Revision
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Option C



Note: Secondary steelwork should be continuous, however if there is any gaps between the vertical supports which are above 20mm a flashing plate should be introduced to bridge the gap - refer to Kingspan Envirocare Update 49

Notes:

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Rev	Description	Chkd	Date
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Project

Drawing

KS1000 OPT Hz
Option A Vert Joint

Status

Drawn by RL	Checked by JP	Date 11/02/15
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Drawing Number OptimoHz15017	Revision
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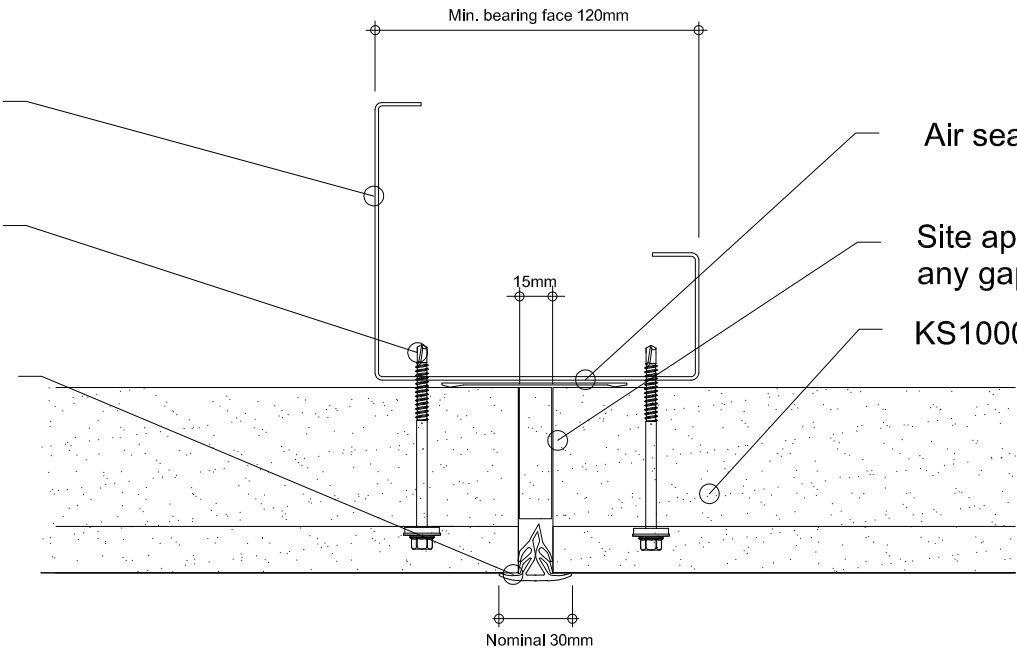
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Option D

Kingspan Horizontal Panel Vertical Support

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer

SP4 push-in black EPDM gasket fitted before canister insualtion



Air seal - EPDM VJ1 bubble gasket 60x10mm

Site applied LPCB certified PIR insualtion board
any gaps filled with fire rated cannister insualtion

KS1000 Optimo / LPCB insulated wall panel horizontally laid

Note: Seconday steelwork should be continuous, however if there is any gaps between the vertical supports which are above 20mm a flashing plate should be introduced to brige the gap - refer to Kingspan Envirocare Update 49

Notes:

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Project

Drawing

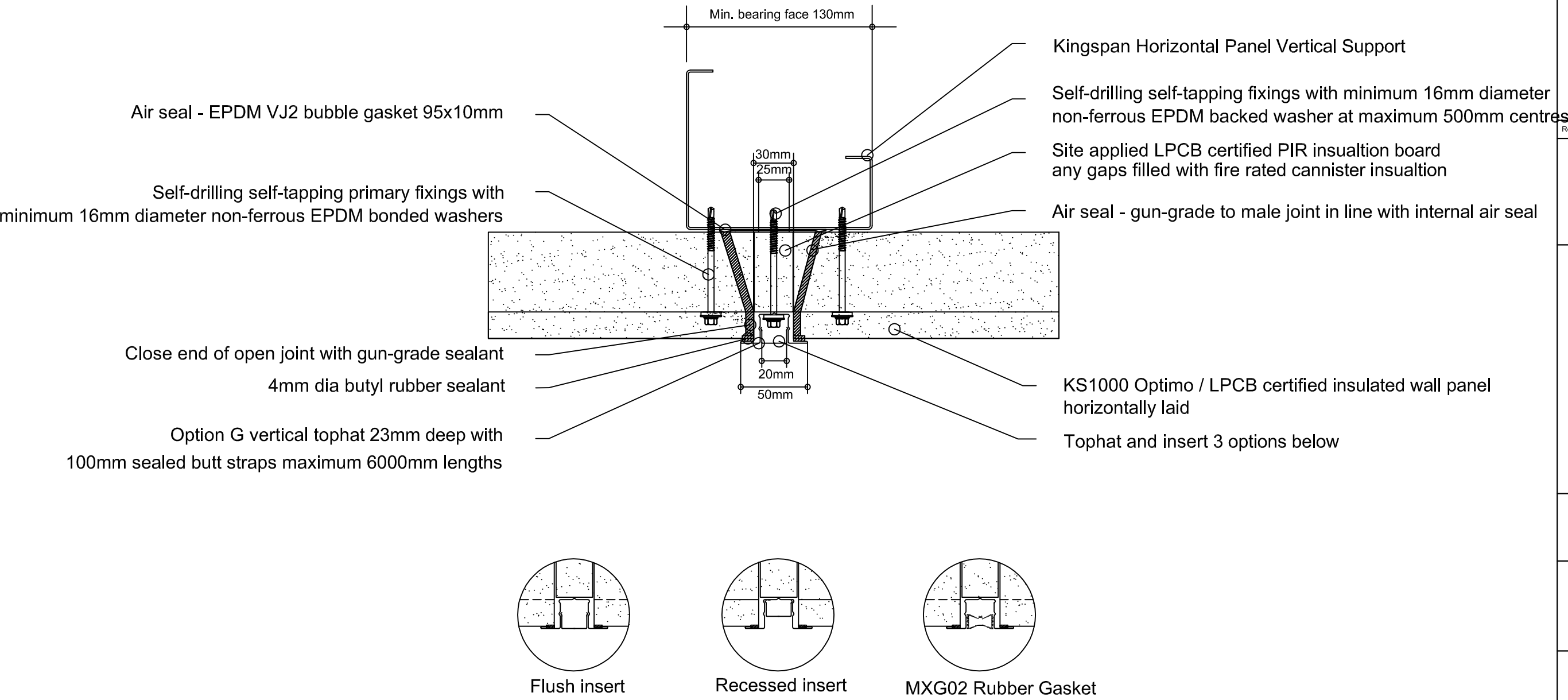
KS1000 OPT Hz
Option A Vert Joint

Status

Drawn by RL	Checked by JP	Date 11/02/15
Drawing Number OptimoHz15018		Revision

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Option G



Note: Secondary steelwork should be continuous, however if there is any gaps between the vertical supports which are above 20mm a flashing plate should be introduced to brige the gap - refer to Kingspan Envirocare Update 49

Notes:

Rev	Description	Chkd	Date
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Project

Drawing

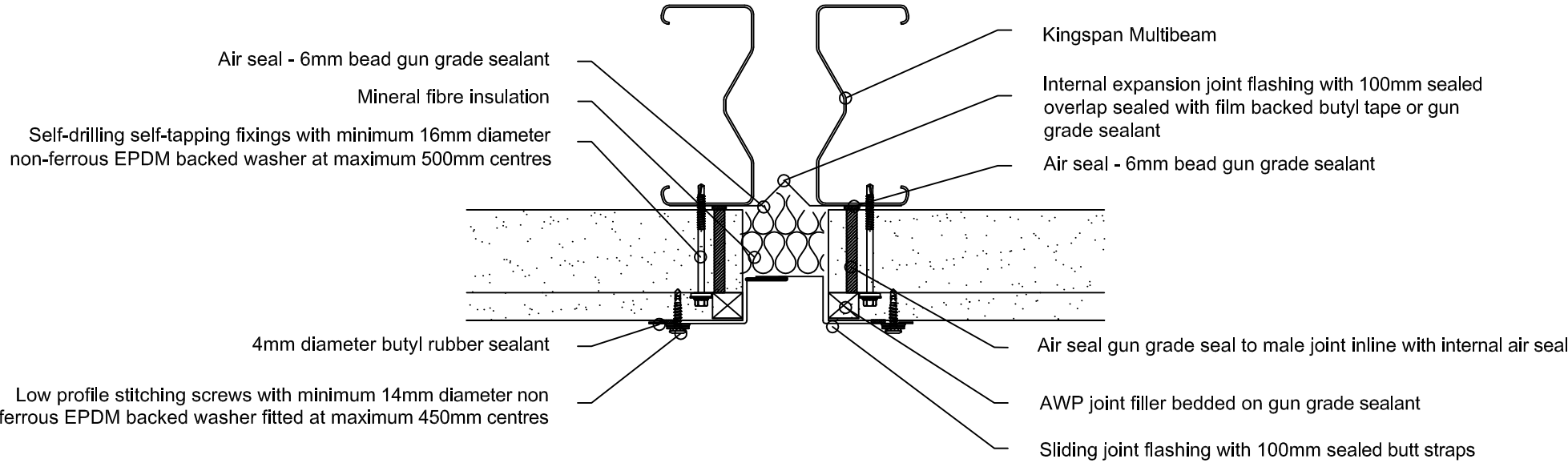
KS1000 AWP Hz
Option G Vertical Joint

Status

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RL	JP	11/02/15

Drawing Number	Revision
OptimoHz15019	

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Project

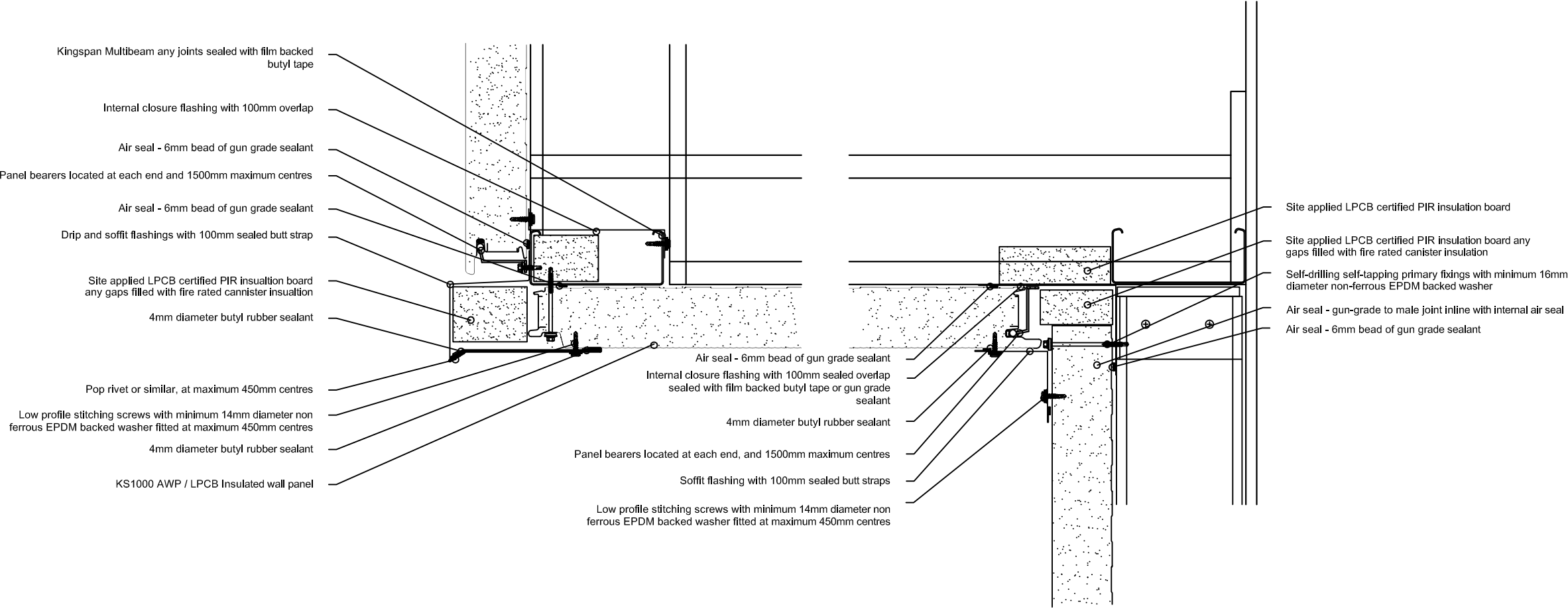
Drawing

KS1000 Optimo Hz
Movement Joint

Status


Drawn by RL	Checked by JP	Date 15/03/15
Drawing Number OptimoHz15020		Revision

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Project

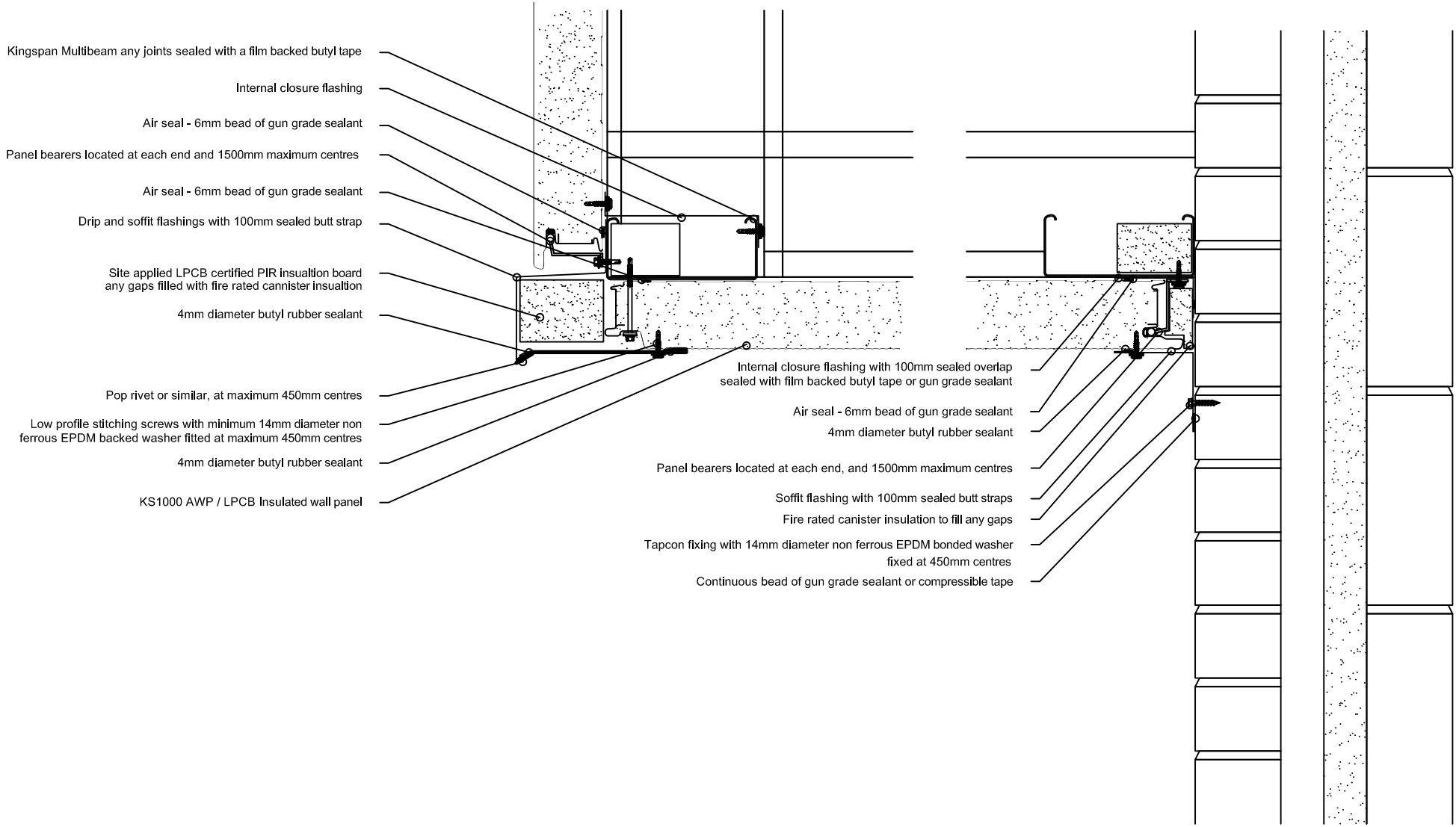
Drawing

KS1000 Optimo Hz Soffit and Fascia

Status

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Drawing Number OptimoHz15021		Revision

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Client

Project

Drawing

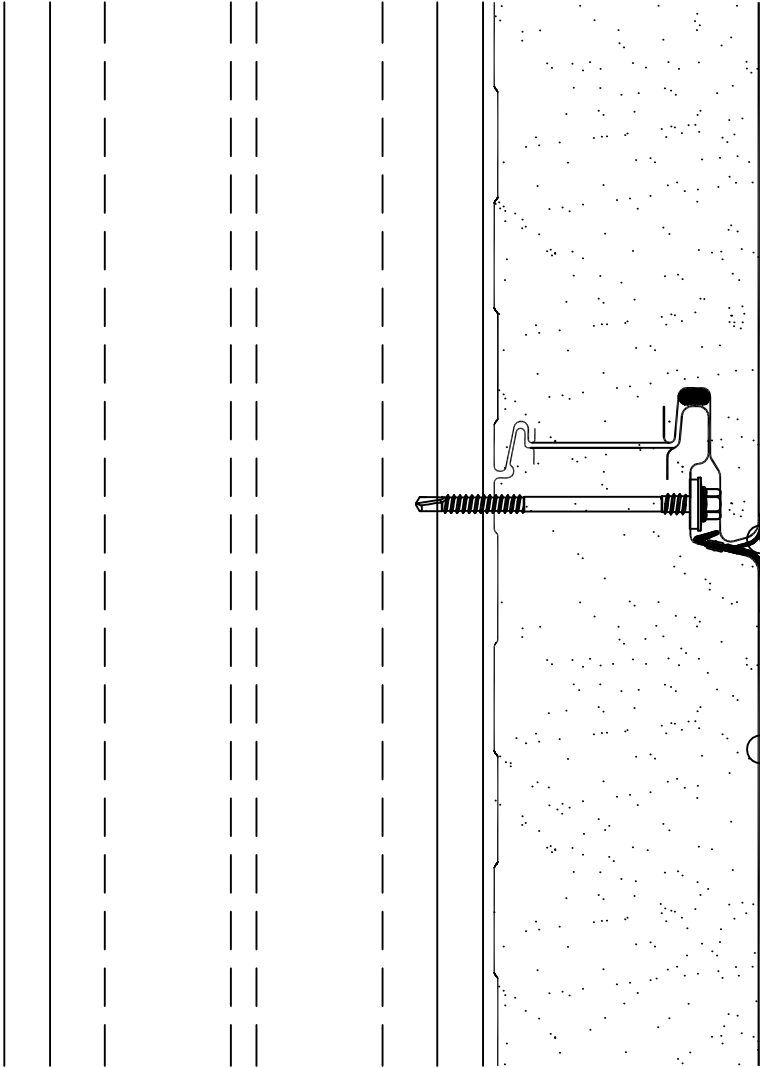
KS1000 Optimo Hz
Soffit and Fascia

Status

Drawn by	Checked by	Date
RL	JP	15/03/15

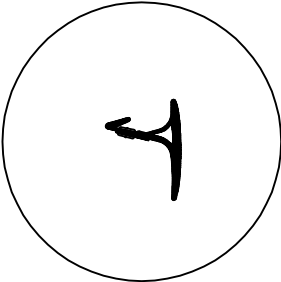
Drawing Number	Revision
OptimoHz15022	

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S11 factory fitted black EPDM gasket fitted to lower panel

KS1000 Optimo / LPCB certified insulated wall panel



SP11

Note: Horizontal gasket fits behind wings of vertical fir-tree gasket on site ie simply lapped

Notes:

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Rev	Description	Chkd	Date
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Client

Project

Drawing

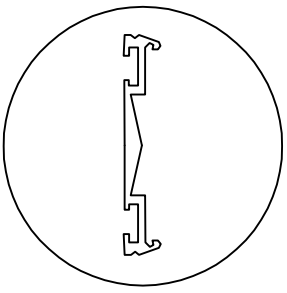
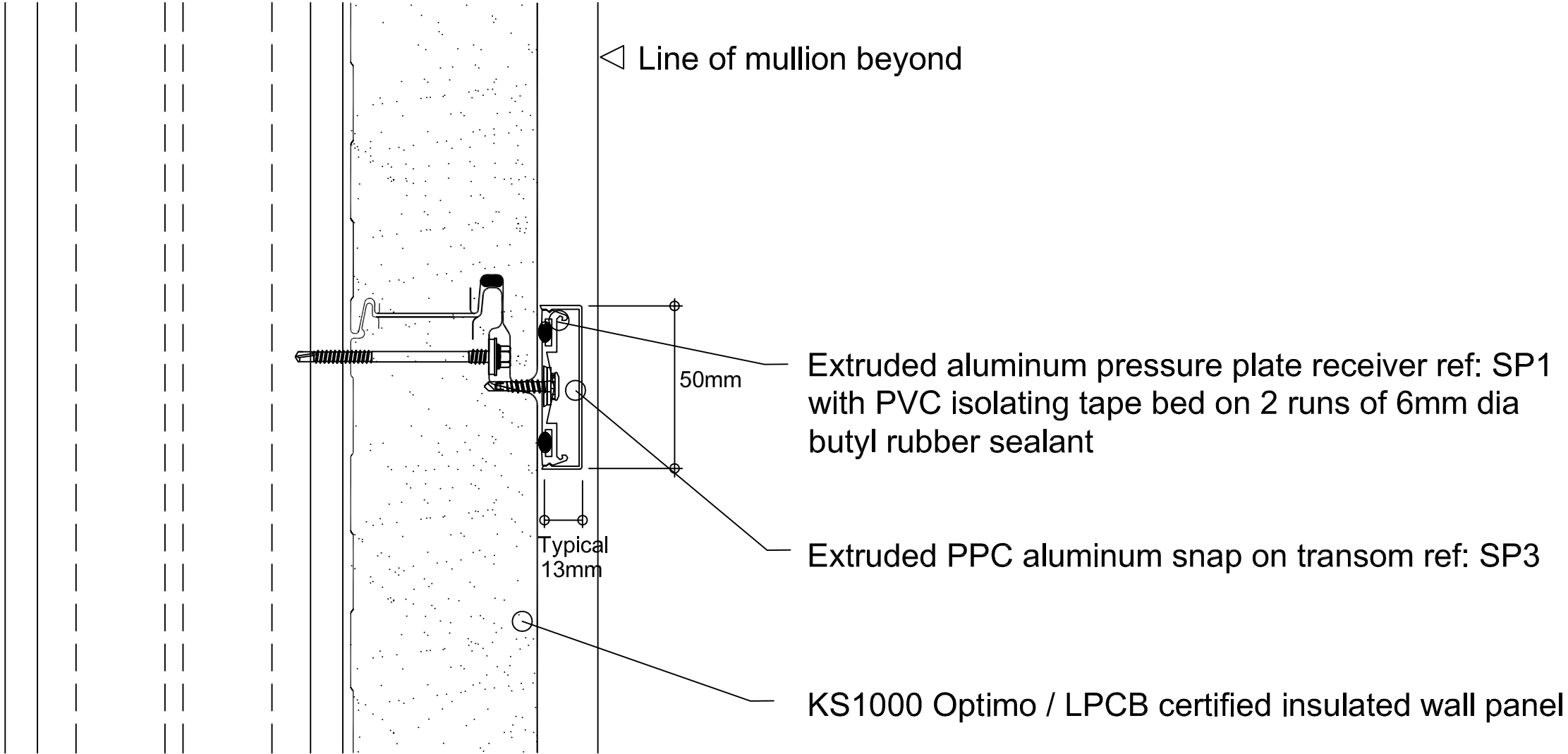
KS1000 AWP Hz
Option D Hz Joint

Status

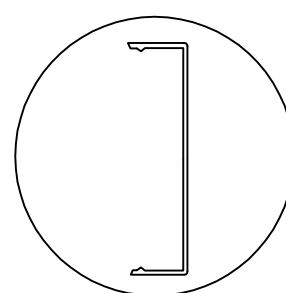
Drawn by RL	Checked by JP	Date 11/02/15
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Drawing Number OptimoHz15023	Revision
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SP1



SP3

Note: Extrusions supplied in 6.4m long only and site cut as required
The length of the SP1 and SP3 will dictate max length of panel to nominal 6.4m

Notes:

Rev	Description	Chkd	Date

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Drawing

**KS1000 AWP Hz
Curtain Wall Hz Joint**

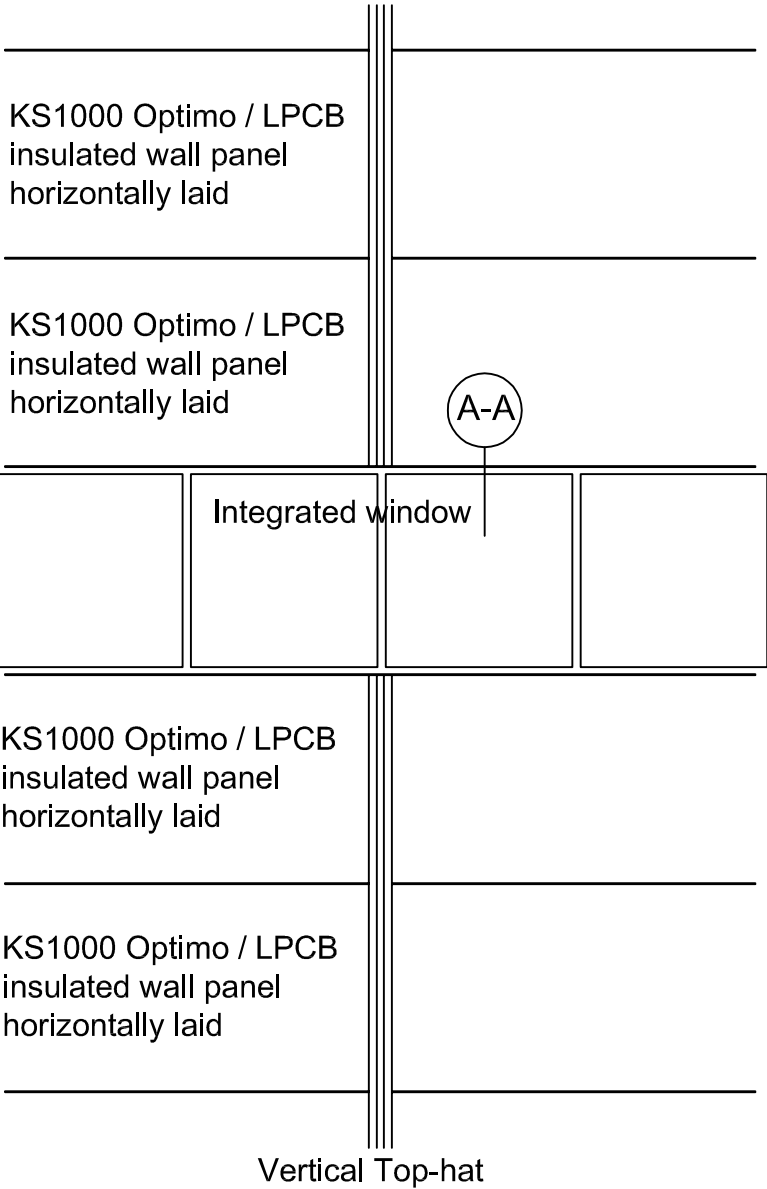
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Drawn by	Checked by	Date
RL	JP	11/02/15

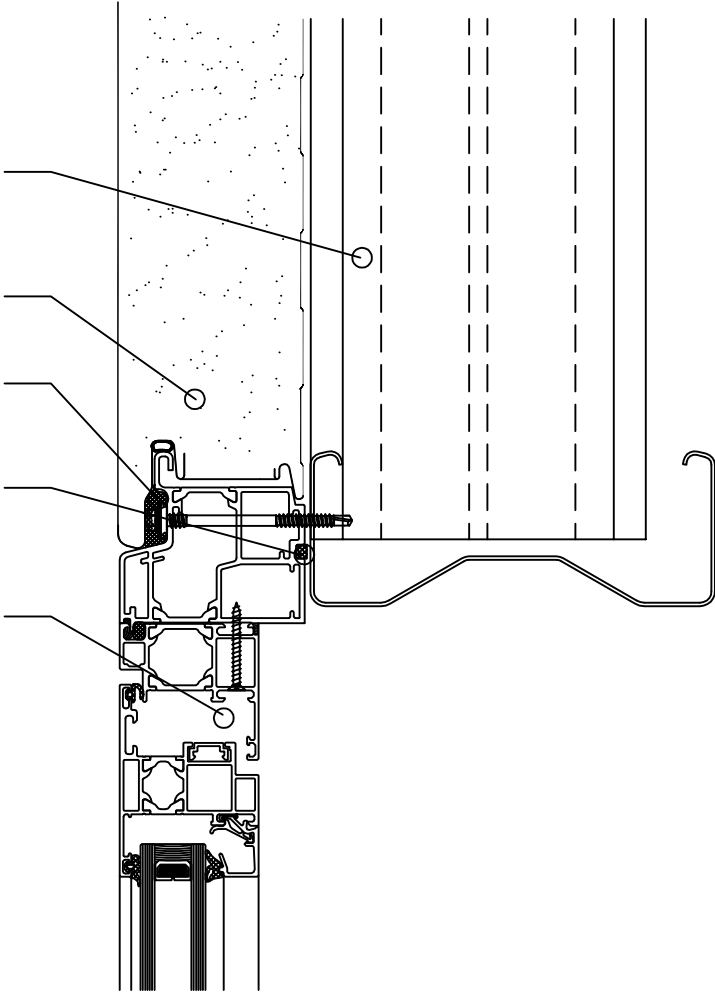
Drawing Number	Revision
OptimoHz15024	

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Wall Elevation



- Kingspan Multibeam
- KS1000 Optimo / LPCB insulated wall panel horizontally laid
- AWP joint filler bedded on gun grade sealant
- Air seal - as window suppliers advice
- Intergrated window unit



SECTION A-A

Notes:

Rev	Description	Chkd	Date



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Project

Drawing

KS1000 Optimo Hz
Integrated Window Head

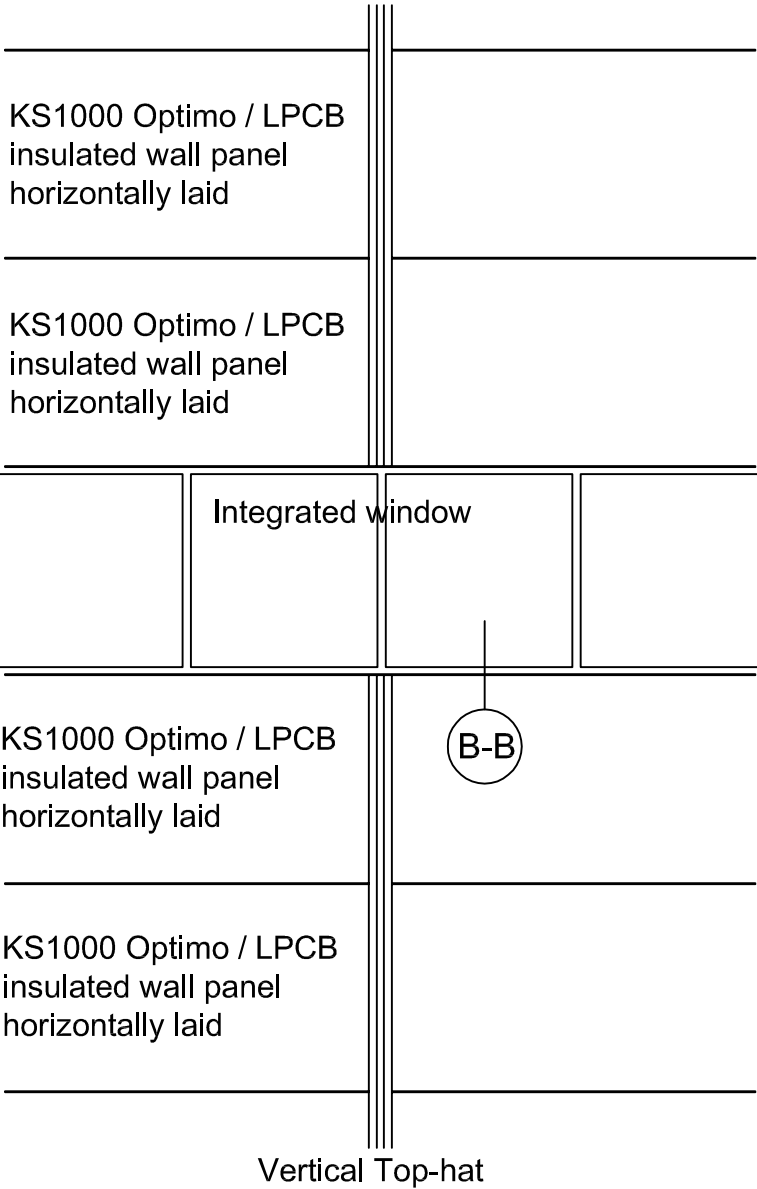
Status

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Drawing Number OptimoHz15025	Revision
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Wall Elevation



Intergrated window unit

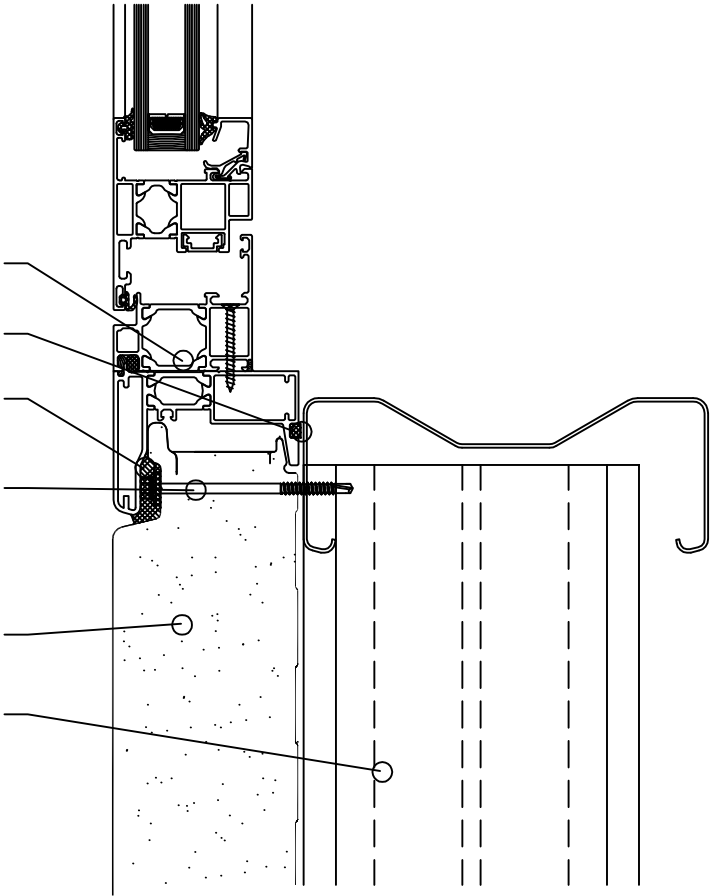
Air seal - as window suppliers advice

AWP joint filler bedded on gun grade sealant

Self-drilling self-tapping primary fixings with
minimum 16mm diameter non-ferrous EPDM
backed washer at 1000mm centres

KS1000 Optimo / LPCB insulated wall panel horizontally laid

Kingspan Multibeam



SECTION B-B

Notes:

Rev	Description	Chkd	Date



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Project

Drawing

KS1000 Optimo Hz
Integrated Window Cill

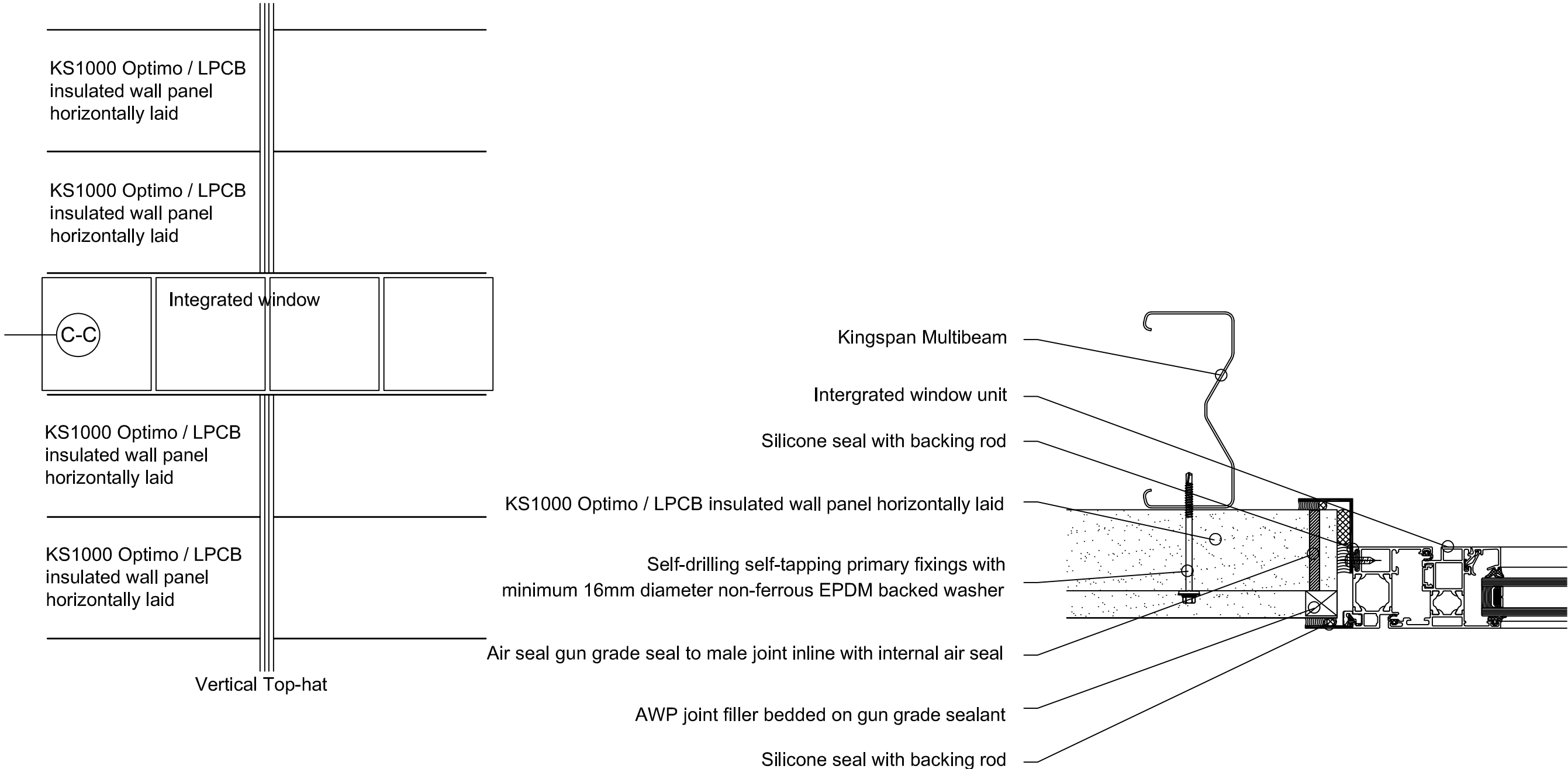
Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15026	Revision
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Wall Elevation



SECTION C-C

Notes:

Rev	Description	Chkd	Date



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Drawing

KS1000 Optimo Hz
Integrated Window Jamb

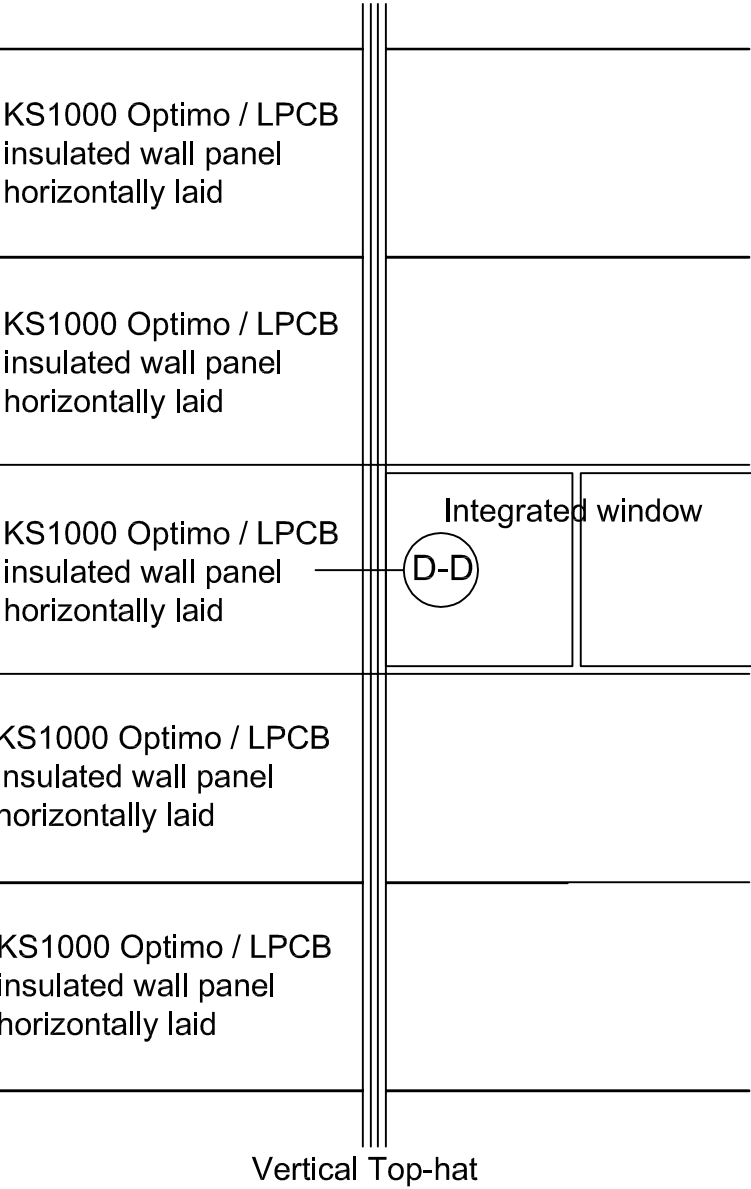
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Drawn by	Checked by	Date
RL	JP	12/12/15

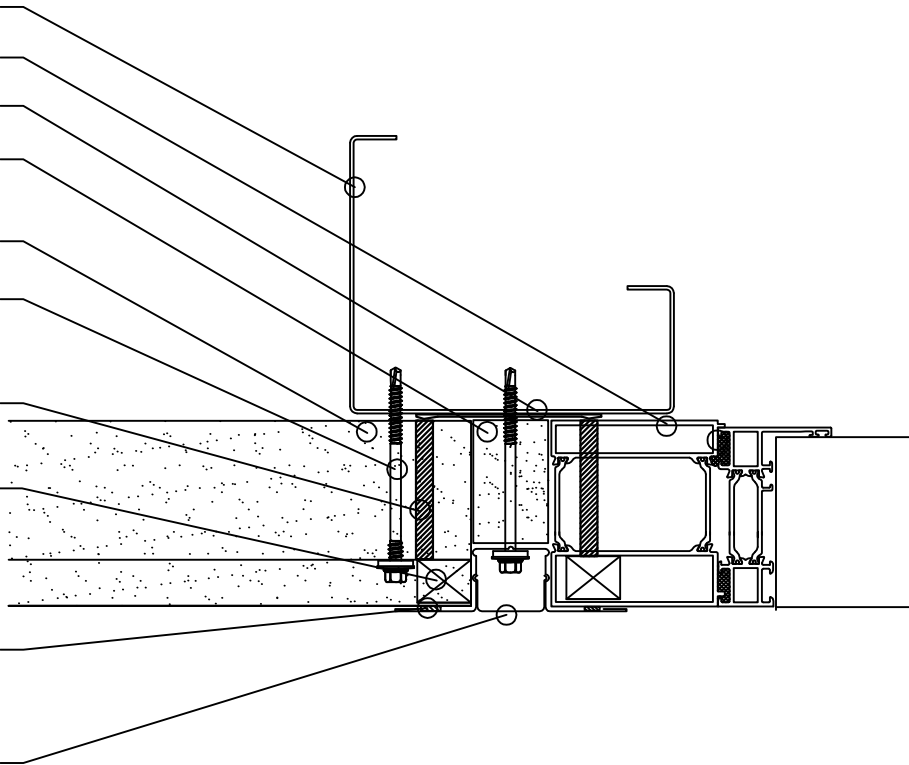
Drawing Number	Revision
OptimoHz15027	

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Wall Elevation



- Kingspan Horizontal Panel Vertical Support
- Intergrated window unit
- Air seal - EPDM VJ2 bubble gasket 95x10mm
- Site applied LPCB certified PIR insualtion board
any gaps filled with fire rated cannister insualtion
- KS1000 Optimo / LPCB insulated wall panel horizontally laid
- Self-drilling self-tapping primary fixings with
minimum 16mm diameter non-ferrous EPDM backed washer
- Air seal gun grade seal to male joint inline with internal air seal
- AWP joint filler bedded on gun grade sealant
- 4mm diameter butyl rubber sealant
- Option A vertical tophat 30mm deep with
100mm sealed butt straps at maximum 6000mm lengths



SECTION D-D

Notes:

Rev	Description	Chkd	Date



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Drawing

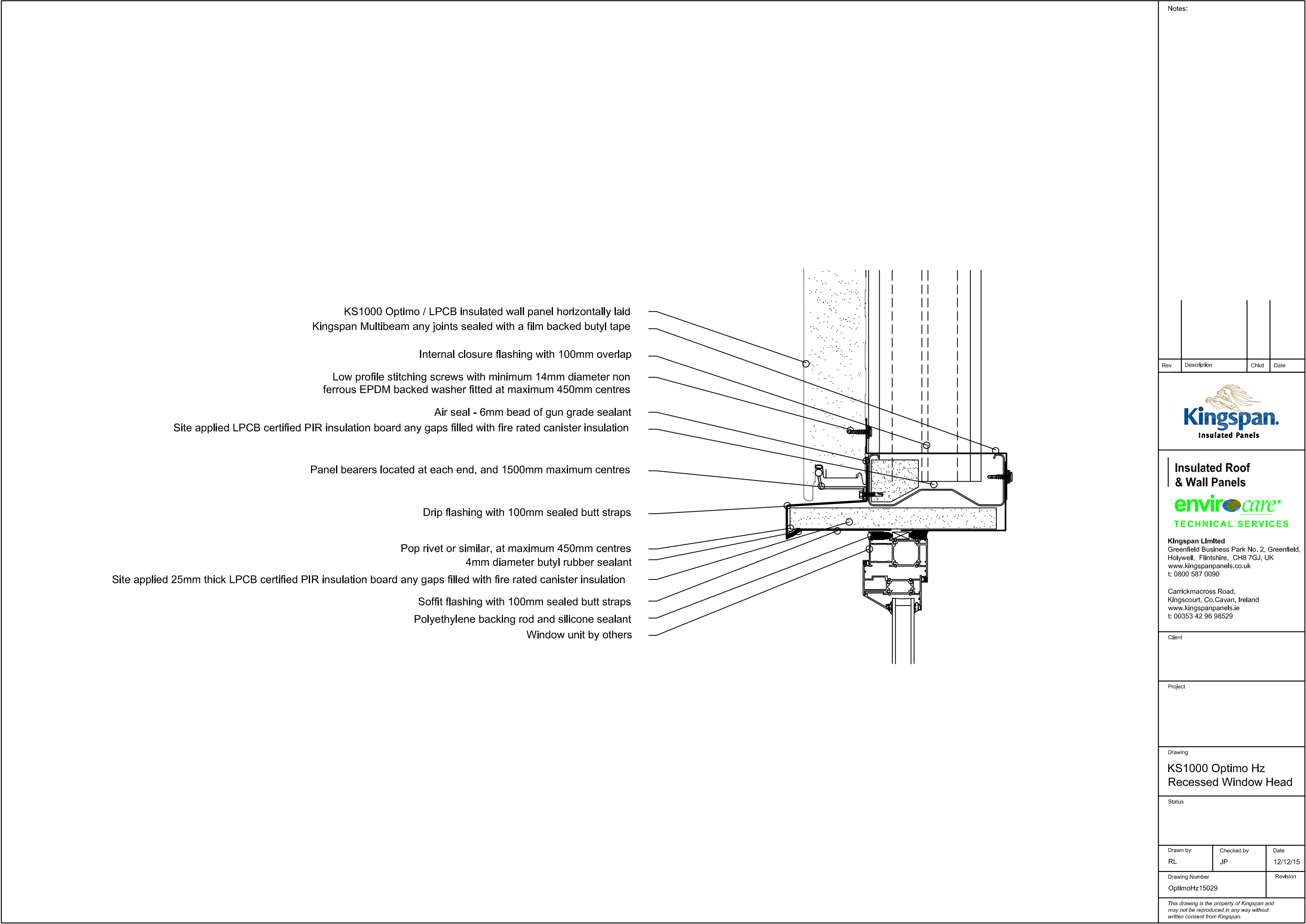
KS1000 Optimo Hz
Integrated Window Jamb

Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15028	

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KS1000 Optimo / LPCB insulated wall panel horizontally laid
Kingspan Multibeam any joints sealed with a film backed butyl tape

Internal closure flashing with 100mm overlap

Low profile stitching screws with minimum 14mm diameter non
ferrous EPDM backed washer fitted at maximum 450mm centres

Air seal - 6mm bead of gun grade sealant
Site applied LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

Panel bearers located at each end, and 1500mm maximum centres

Drip flashing with 100mm sealed butt straps

Pop rivet or similar, at maximum 450mm centres
4mm diameter butyl rubber sealant

Site applied 25mm thick LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

Soffit flashing with 100mm sealed butt straps

Polyethylene backing rod and silicone sealant
Window unit by others

Notes:			
Rev	Description	Chkd	Date
<div></div>			
<div><div><div>Insulated Roof & Wall Panels</div><div><div>TECHNICAL SERVICES</div></div></div><div><div><div>Kingspan Limited</div><div>Greenfield Business Park No. 2, Greenfield, Holywell, Flintshire, CH8 7GJ, UK www.kingspanpanels.co.uk t: 0800 587 0090</div></div><div><div>Carrickmacross Road, Kingscourt, Co.Cavan, Ireland www.kingspanpanels.ie t: 00353 42 96 98529</div></div></div></div>			
Client			
Project			
Drawing			
KS1000 Optimo Hz Recessed Window Head			
Status			
Drawn by	Checked by	Date	
RL	JP	12/12/15	
Drawing Number			Revision
OptimoHz15029			
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Window unit by others

Polyethylene backing rod and silicone sealant

Site applied 25mm thick LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

Kingspan Multibeam any joints sealed with a film backed tape

Window cill flashing with 100mm sealed butt straps

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer at 1000mm centres

Low profile stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres

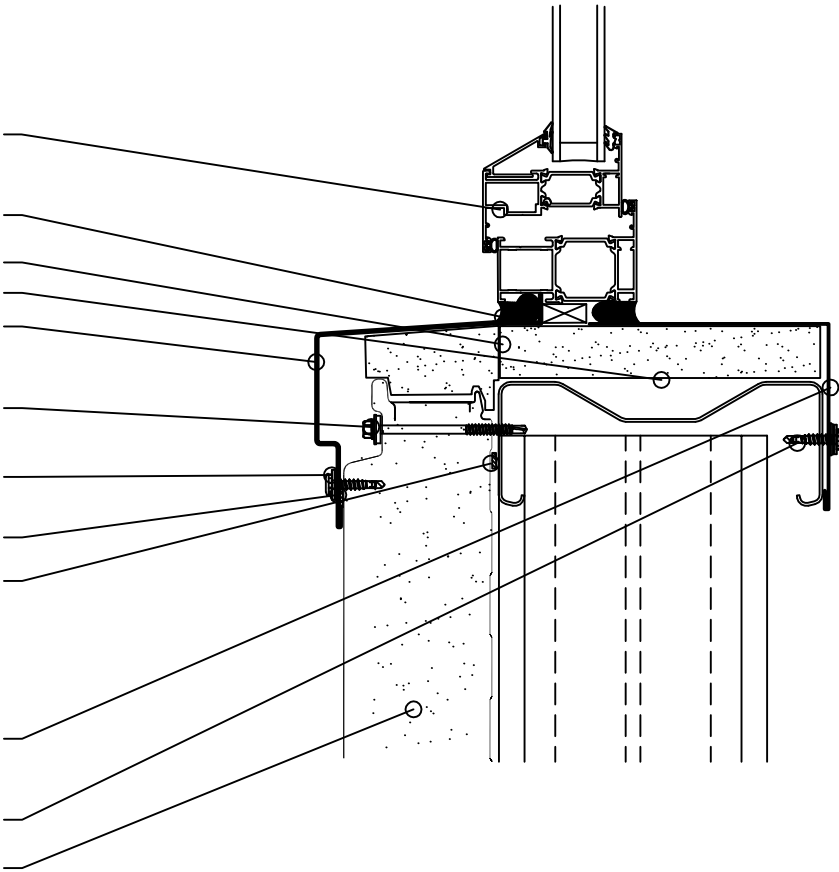
4mm diameter butyl rubber sealant

Air seal - 6mm bead of gun grade sealant

Internal closure flashing with 100mm overlap sealed with gun grade sealant


Low profile stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres

KS1000 Optimo / LPCB insulated wall panel horizontally laid




Notes:

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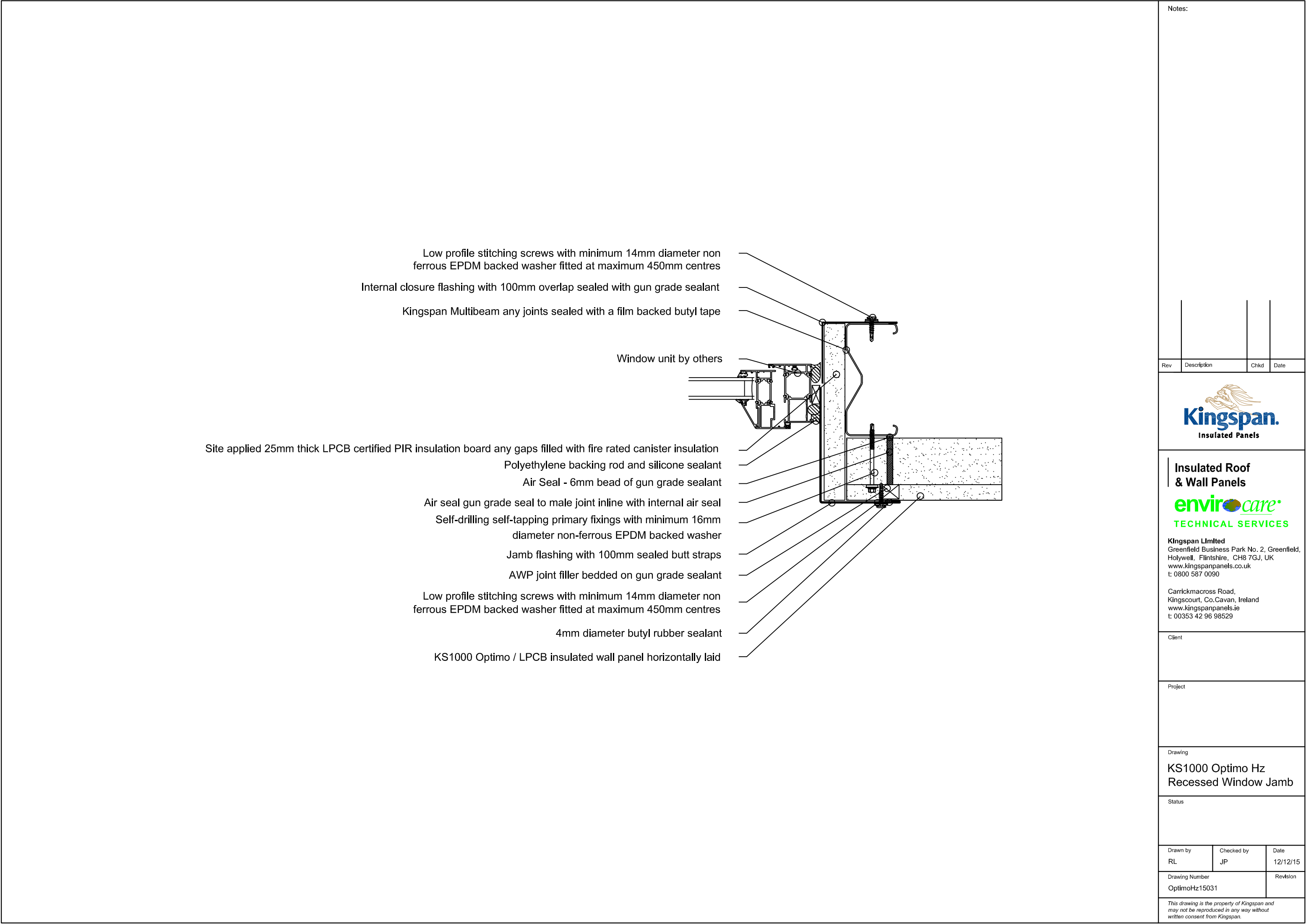
Drawing

KS1000 Optimo Hz
Recessed Window Cill

Status

Drawn by RL	Checked by JP	Date 12/12/15
Drawing Number OptimoHz15030		Revision

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Project

Drawing

KS1000 Optimo Hz
Recessed Window Jamb

Status

Drawn by RL	Checked by JP	Date 12/12/15
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Drawing Number OptimoHz15031	Revision
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Internal closure flashing with 100mm sealed overlap

Low profile stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres

KS1000 Optimo / LPCB insulated wall panel horizontally laid

4mm diameter butyl rubber sealant

Low profile stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres

Air seal - 6mm bead of gun grade sealant

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer at 1000mm centres

Drip flashing with 100mm sealed butt straps

Site applied 25mm thick LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

External closure flashing with 100mm sealed butt straps

Pop rivet or similar, at maximum 450mm centres

4mm diameter butyl rubber sealant

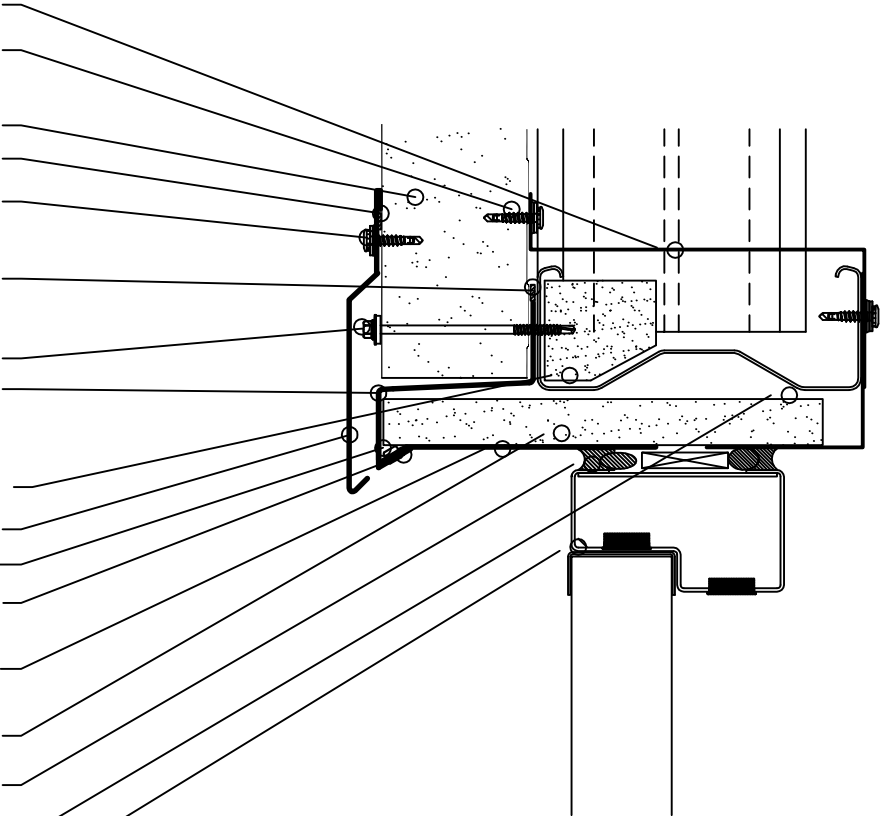
Soffit flashing with 100mm sealed butt straps

Site applied 25mm thick LPCB certified PIR insulation board any gaps filled with fire rated canister insulation

Polyethylene backing rod and silicone sealant

Kingspan Multibeam any joints sealed with a film backed butyl

Door unit by others



Notes:

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Drawing

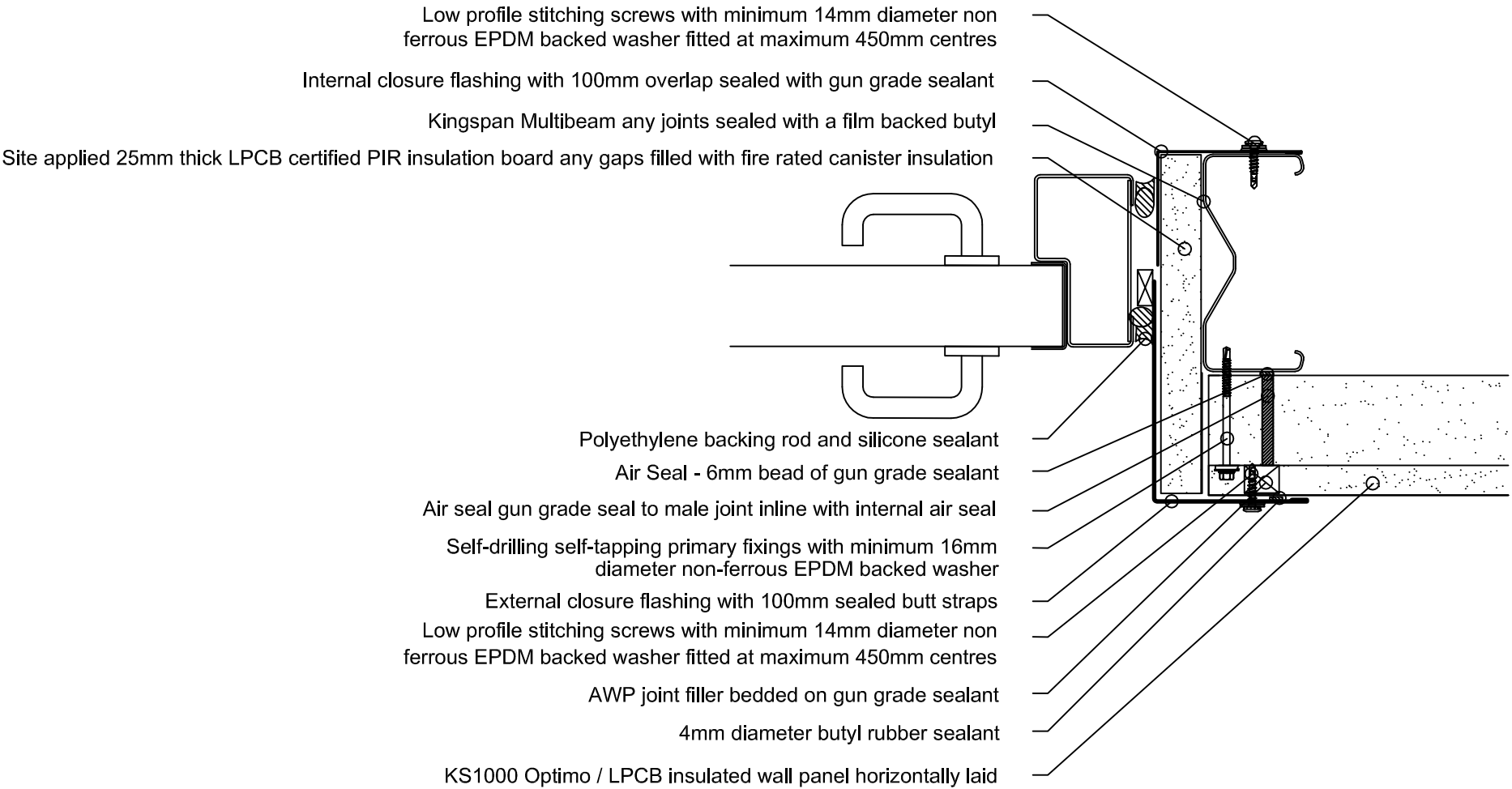
KS1000 Optimo Hz
Personnel Door Head

Status

Drawn by	Checked by	Date
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Drawing Number	Revision
OptimoHz15032	

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Project

Drawing

KS1000 Optimo Hz
Personnel Door Jamb

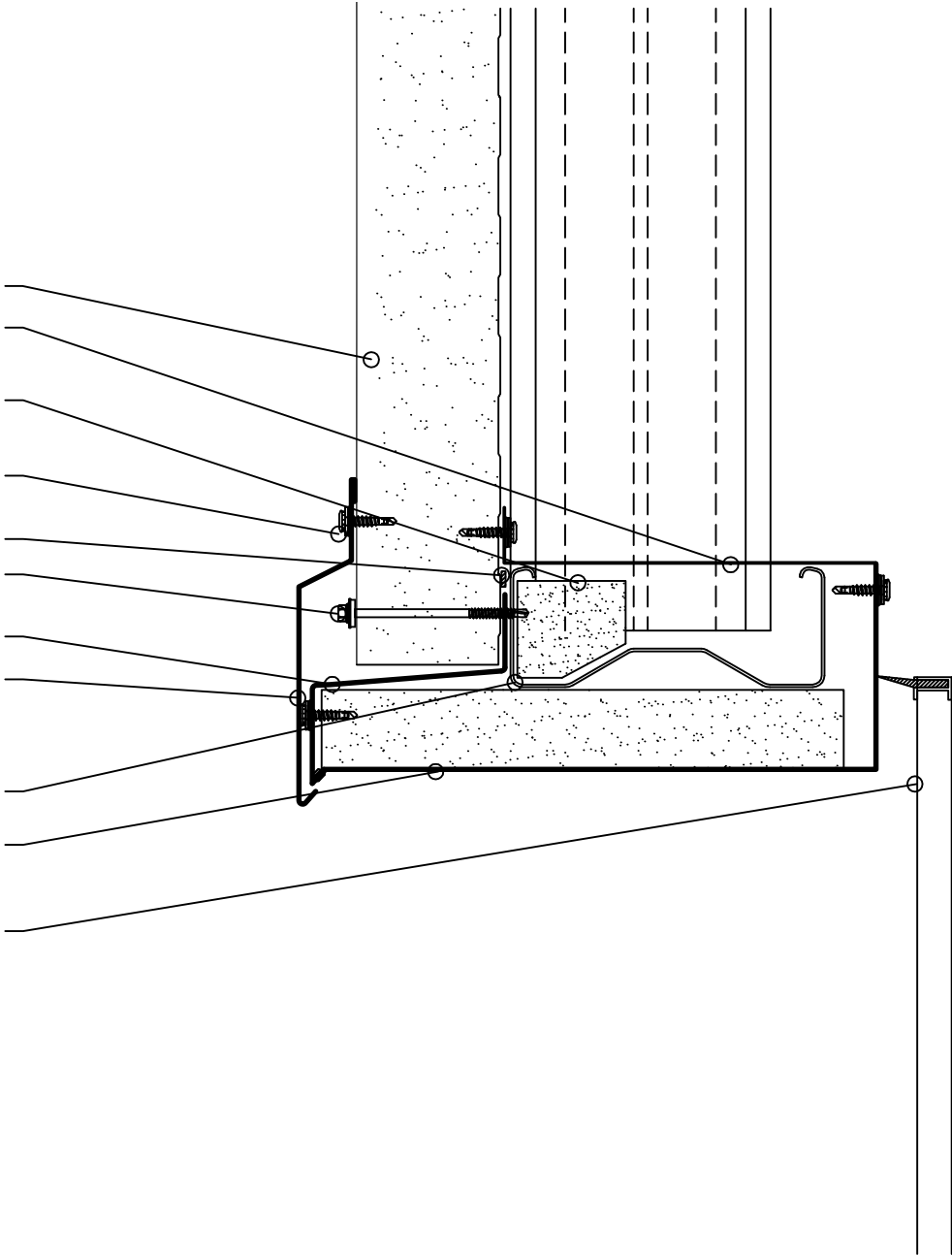
Status

Drawn by	Checked by	Date
RL	JP	12/12/15

Drawing Number	Revision
OptimoHz15033	

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- KS1000 Optimo / LPCB insulated wall panel horizontally laid
- Internal closure flashing with 100mm overlap
- Site applied LPCB certified PIR insulation board any gaps filled with fire rated canister insulation
- Low profile stitching screws with minimum 14mm diameter non ferrous EPDM backed washer fitted at maximum 450mm centres
- Air seal - 6mm bead of gun grade sealant
- Self-drilling self-tapping primary fixings with minimum 19mm diameter non-ferrous EPDM backed washer at 1000mm centres
- Drip flashing with 100mm sealed overlaps or butt straps
- External closure flashing with 100mm sealed overlaps or butt straps
- Kingspan Multibeam any joints sealed with a film backed butyl tape
- Soffit flashing with 100mm sealed butt straps
- Door track



Notes:

Rev	Description	Chkd	Date



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Drawing

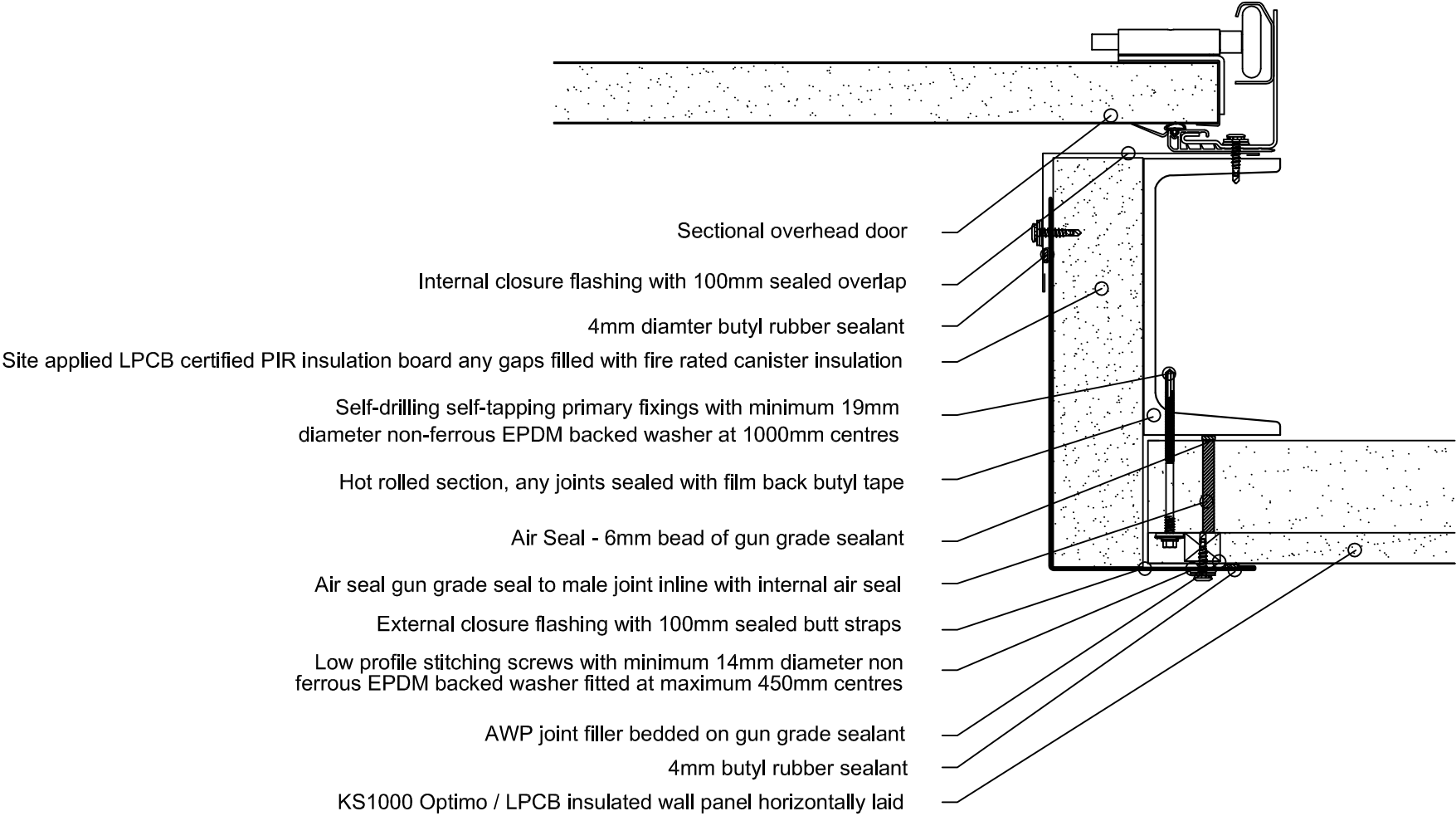
KS1000 Optimo Hz
Roller Shutter Door Head

Status

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Drawing Number	Revision
OptimoHz15034	

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Project

Drawing

KS1000 Optimo Hz
Roller Shutter Door Jamb

Status

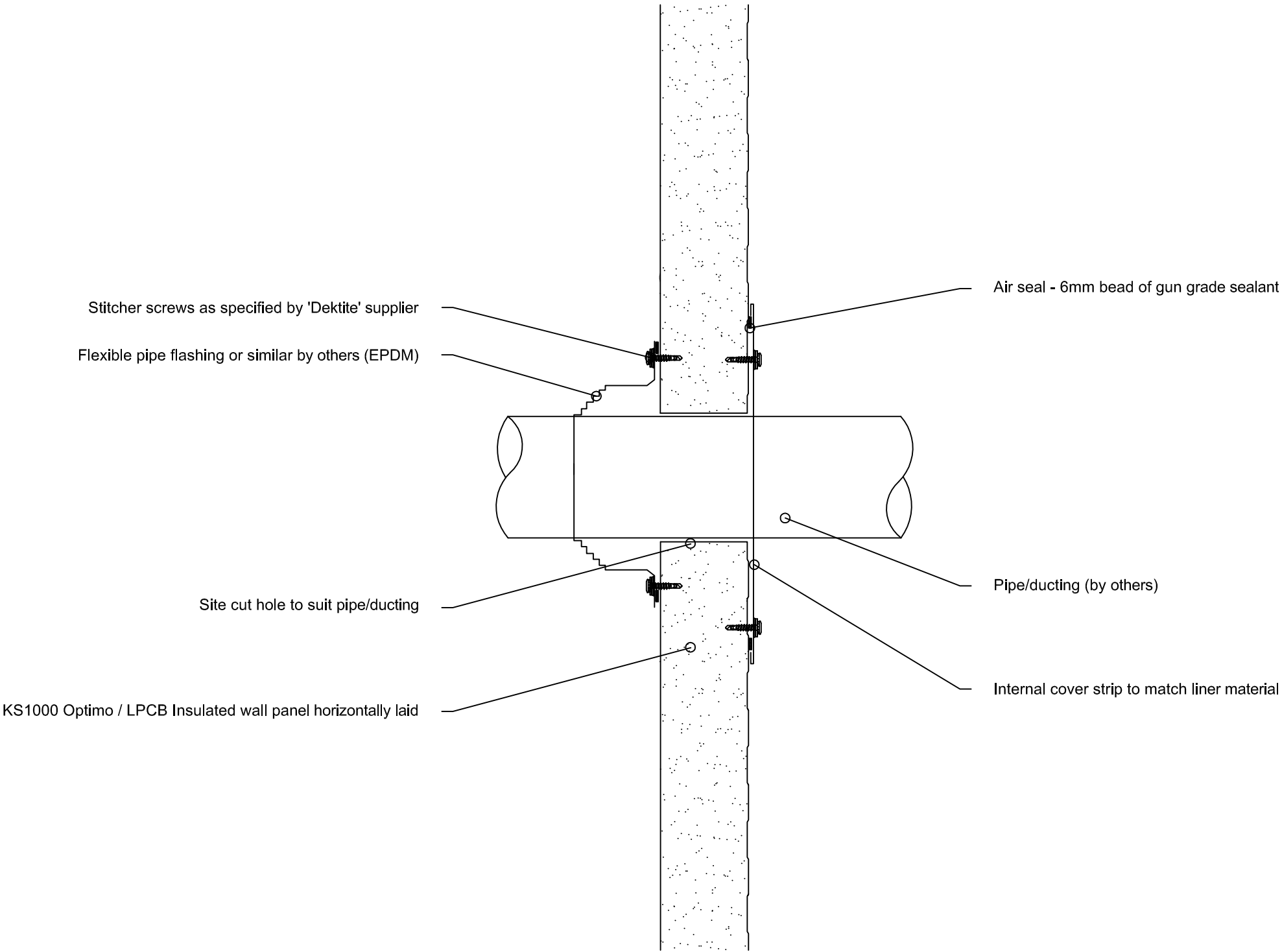
Drawn by	Checked by	Date
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Drawing Number	Revision
OptimoHz15035	

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Wall Extractor Detail

Standard Temperature



KS1000 Optimo / LPCB Insulated wall panel horizontally laid

Site cut hole to suit pipe/ducting

Stitcher screws as specified by 'Dektite' supplier

Flexible pipe flashing or similar by others (EPDM)

Air seal - 6mm bead of gun grade sealant

Pipe/ducting (by others)

Internal cover strip to match liner material

Note: Maximum hole size to be 300mm square or diameter, penetrations greater will require additional supporting steel

Notes:

Rev	Description	Chkd	Date



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Drawing

KS1000 Optimo Hz
Pipe Penetration

Status

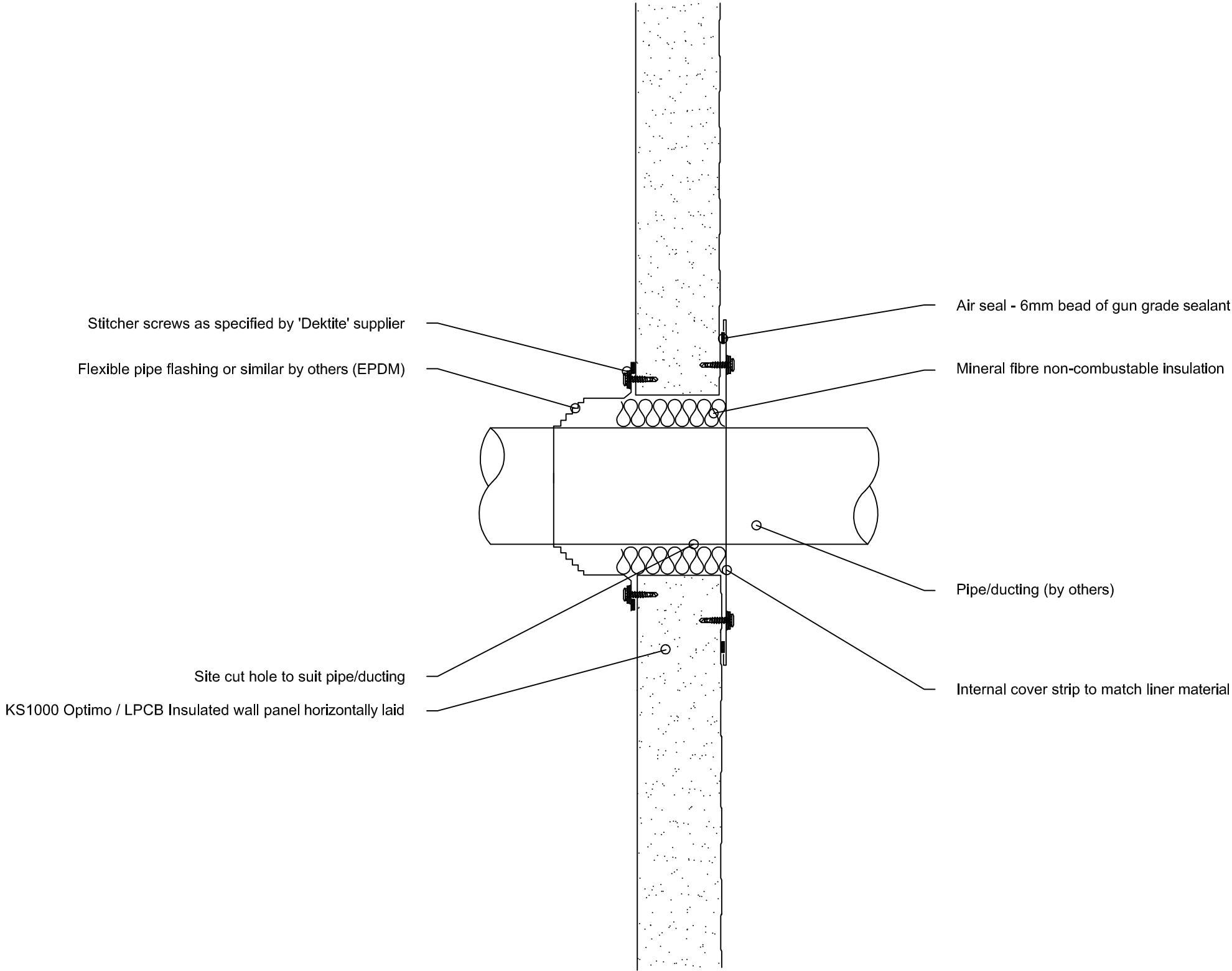
Drawn by	Checked by	Date
RL	JP	15/03/15

Drawing Number	Revision
OptimoHz15036	

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Wall Extractor Detail

High Temperature



Note: Maximum hole size to be 300mm square or diameter, penetrations greater will require additional supporting steel

Notes:

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Project

Drawing

KS1000 Optimo Hz
Pipe Penetration

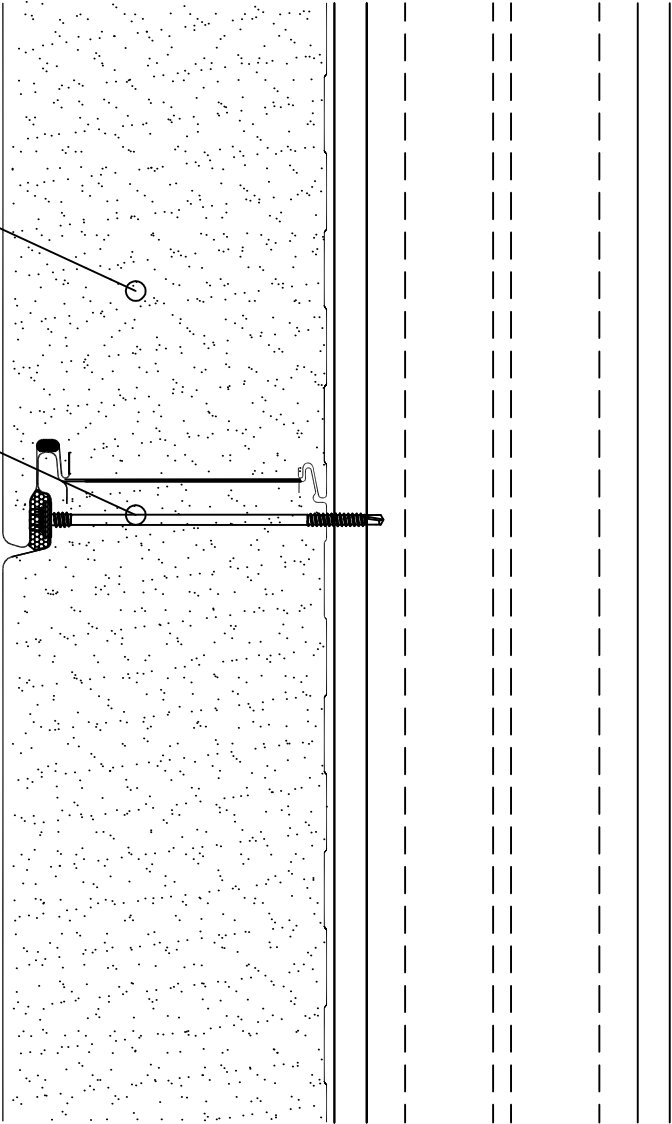
Status

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Drawing Number OptimoHz15037		Revision

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KS1000 Optimo / LPCB insulated wall panel horizontally laid

Self-drilling self-tapping primary fixings with minimum 16mm diameter non-ferrous EPDM backed washer



Notes:

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Rev	Description	Chkd	Date
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Drawing

KS1000 Optimo Hz Joint

Status

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Drawing Number	Revision
OptimoHz15038	

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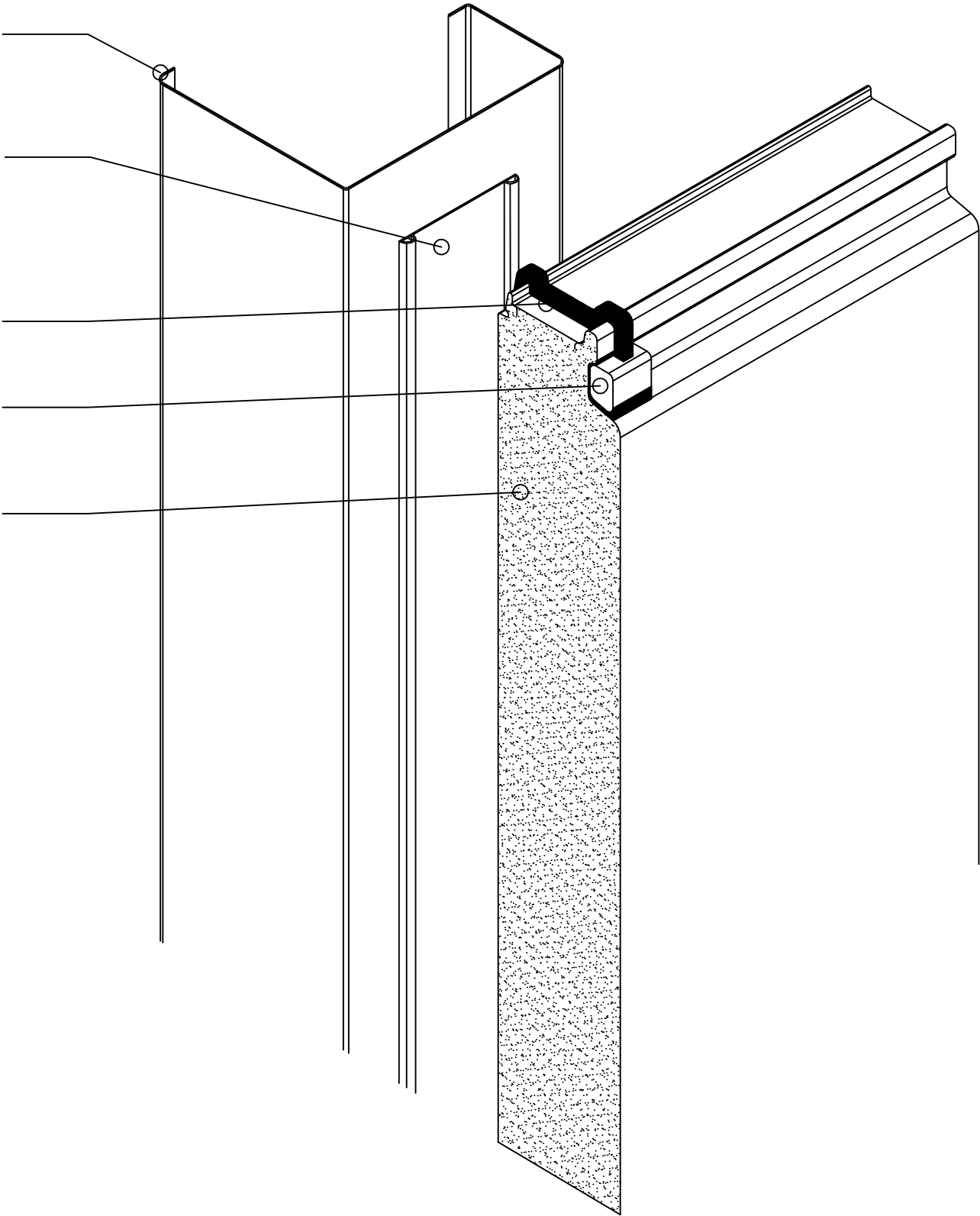
Kingspan Horizontal Panel Vertical Support

Air seal - EPDM VJ2 bubble gasket 95x10mm

Air seal gun grade seal to male joint inline with internal air seal

AWP joint filler bedded on gun grade sealant

KS1000 Optimo / LPCB insulated wall panel horizontally laid



Notes:

Rev	Description	Chkd	Date



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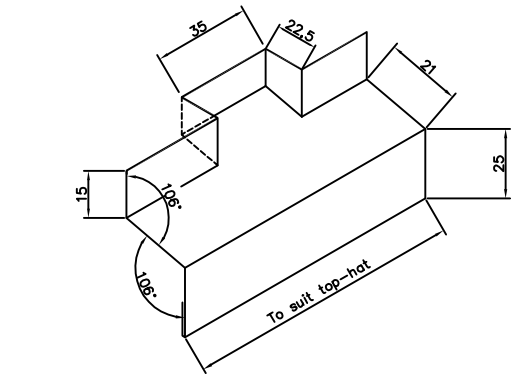
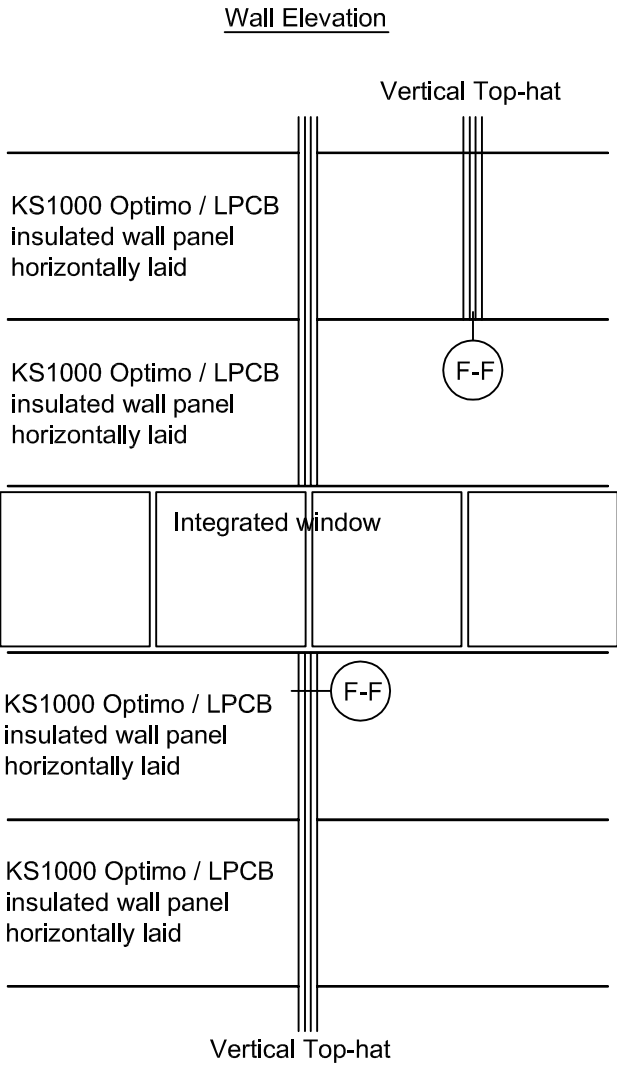
KS1000 Optimo Hz Joint
Isometric View

Status

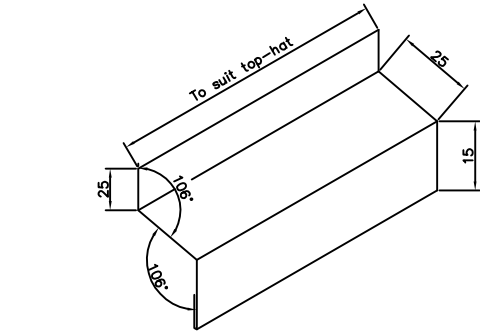
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Drawing Number OptimoHz15039	Revision
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Shoe Flashing

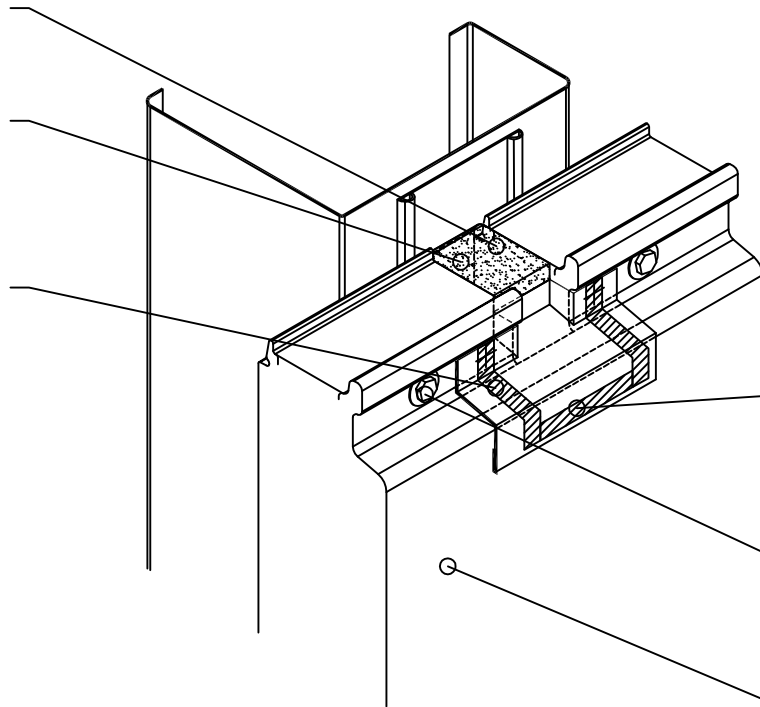


Deflector Flashing

Site form notch in lower panel to receive shoe flashing

Fire rated Canister applied insulation to notch formed in panel

Gun grade sealant between shoe and top-hat flashing on upper panels



SECTION E-E

Factory made shoe flashing sealed and fixed to lower panel

Panel fasteners positioned not to interfere with shoe flashing

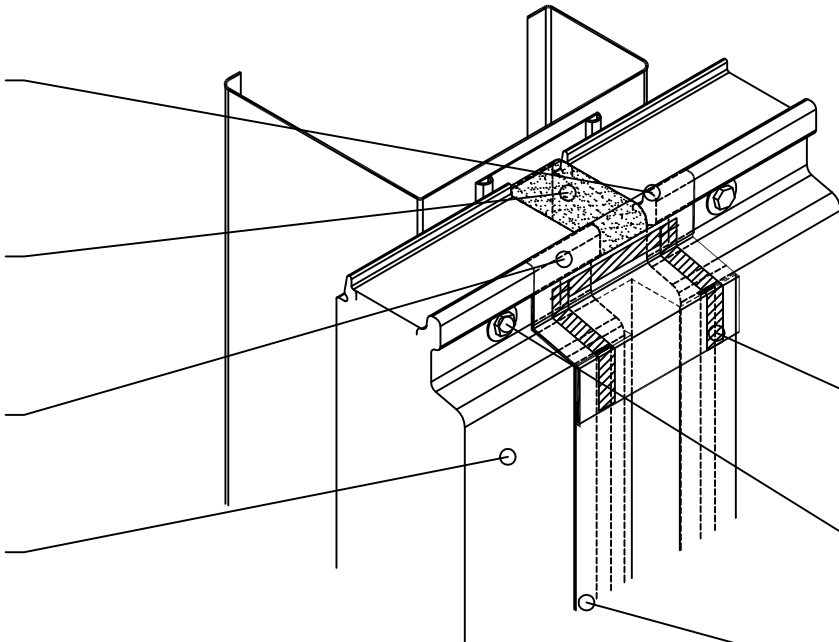
KS1000 Optimo / LPCB insulated wall panel horizontally laid or integrated window

100mm long bead of gun grade sealant applied to male of panel prior to placing of upper panel or window frame

Canister applied Insulation inserted between panels

Film backed butyl tape applied over male panel and deflector flashing

KS1000 Optimo / LPCB insulated wall panel horizontally laid or integrated window



SECTION F-F

Gun grade sealant applied to deflector flashing

Panel fasteners positioned not to interfere with deflector flashing

Vertical top-hat with two continuous vertical seals to panels

Notes:

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Project

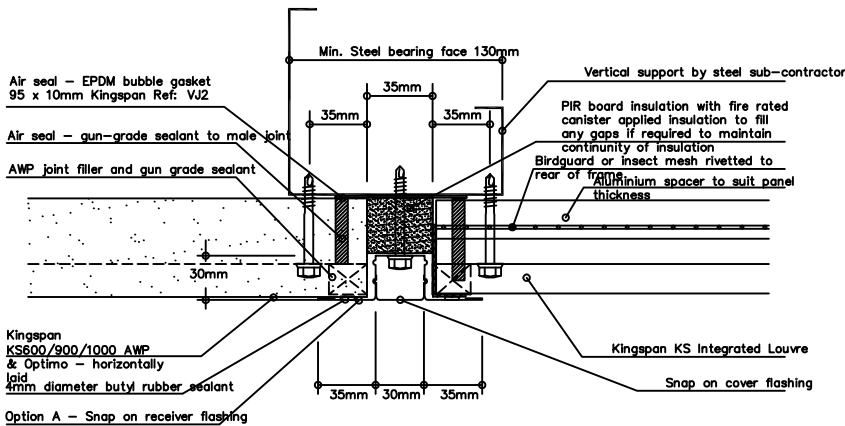
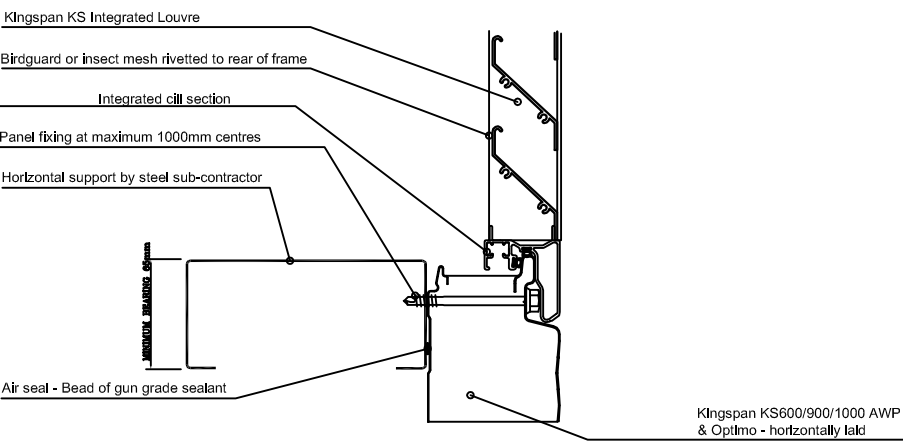
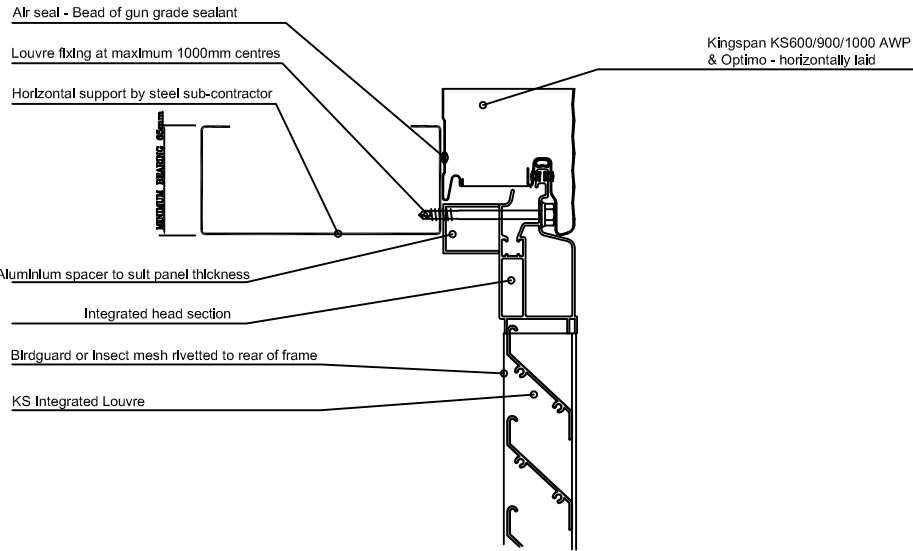
Drawing
**KS1000 Optimo Hz
Shoe and Deflector**

Status

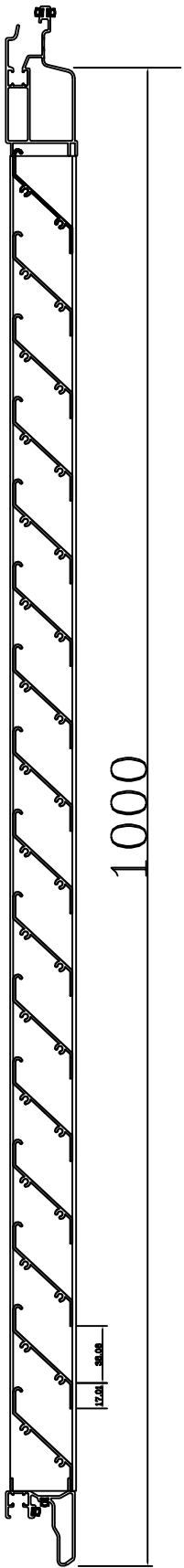
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Drawing Number OptimoHz15040	Revision
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Similar detail for Louvre to Louvre joint



Notes:

Rev	Description	Chkd	Date
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Client

Project

Drawing

**KS1000 Optimo Hz
Kingspan Louvre**

Status

Drawn by RL	Checked by JP	Date 15/03/15
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Drawing Number OptimoHz15041	Revision
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