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- Fixing grounds must be able to withstand all loads transmitted from and through the Rationel system.

primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS
TYPICAL CILL DETAIL

Studio62

approved

brick/block masonry

Scale: 1:2 approx @ A4 Drawing no:

Date: January 2017

AURA+.W1.01.A.C.001

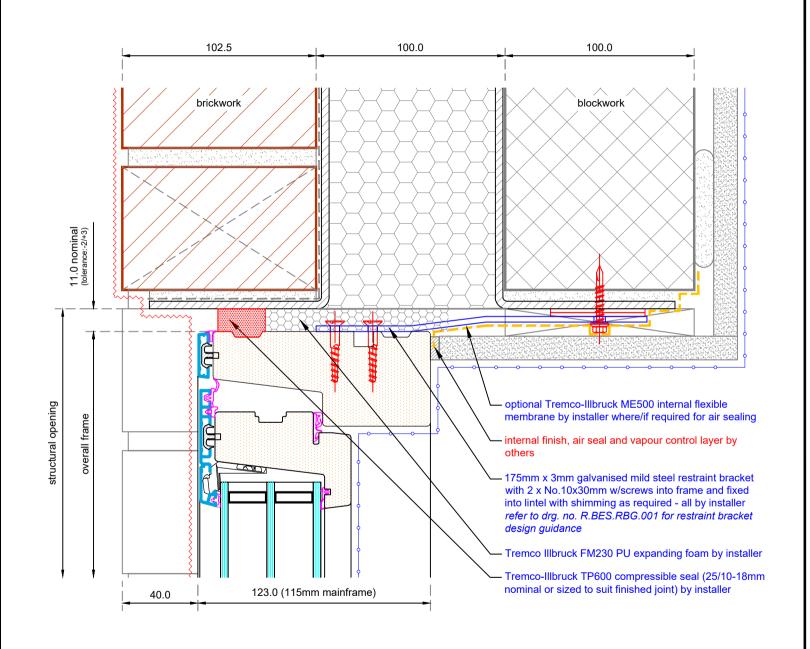
Status:

Drawn:

rationel°

Rationel Windows (UK) Ltd.
7 Avonbury Business Park, Howes Lane,
Bicester, Oxfordshire. OX26 2UA

tel: 01869 248181 fax: 01869 249693 web: www.rationel.co.uk



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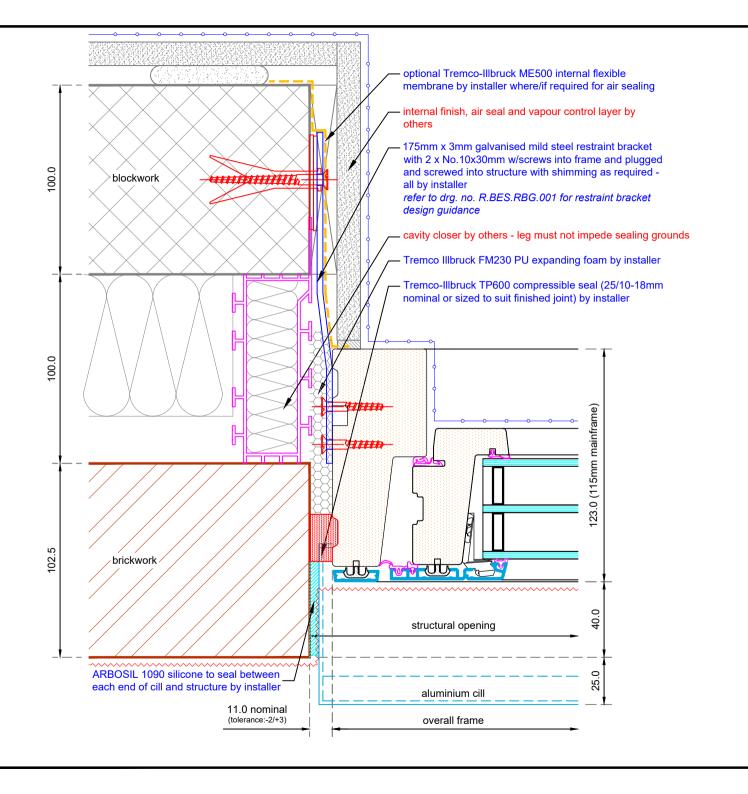
Rationel AURAPLUS TYPICAL HEAD DETAIL

brick/block masonry



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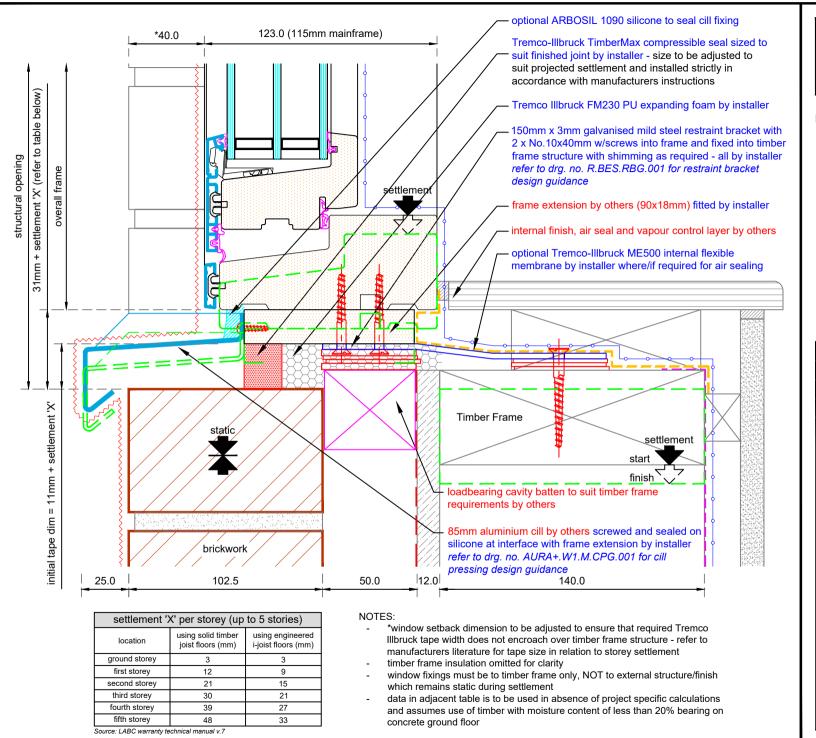
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Rationel AURAPLUS
TYPICAL CILL DETAIL

brick/timber frame

Scale: 1:2 approx @ A4

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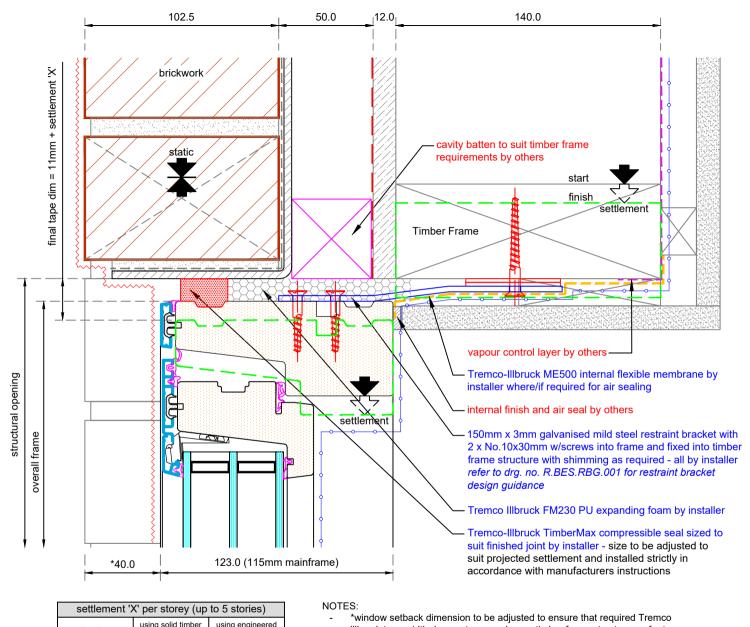
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settlement 'X' per storey (up to 5 stories)						
location	using solid timber joist floors (mm)	using engineered i-joist floors (mm)				
ground storey	3	3				
first storey	12	9				
second storey	21	15				
third storey	30	21				
fourth storey	39	27				
fifth storey	48	33				

Source: LABC warranty technical manual v.7

- *window setback dimension to be adjusted to ensure that required Tremco Illbruck tape width does not encroach over timber frame structure - refer to manufacturers literature for tape size in relation to storey settlement
- timber frame insulation omitted for clarity
- window fixings must be to timber frame only, NOT to external structure/finish which remains static during settlement
- data in adjacent table is to be used in absence of project specific calculations and assumes use of timber with moisture content of less than 20% bearing on concrete ground floor

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Rationel AURAPLUS TYPICAL HEAD DETAIL

brick/timber frame

Scale: 1:2 approx @ A4

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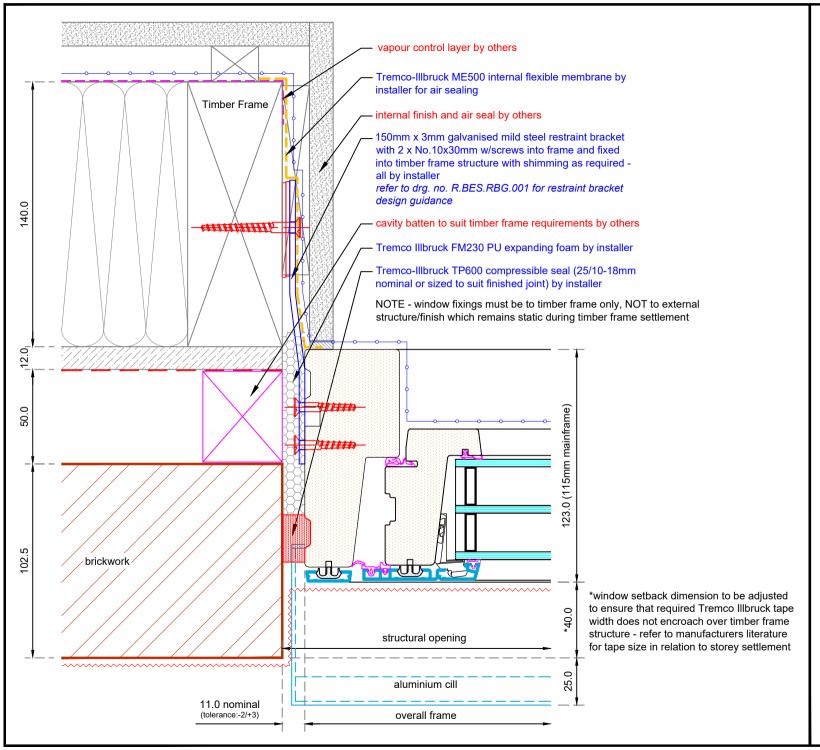
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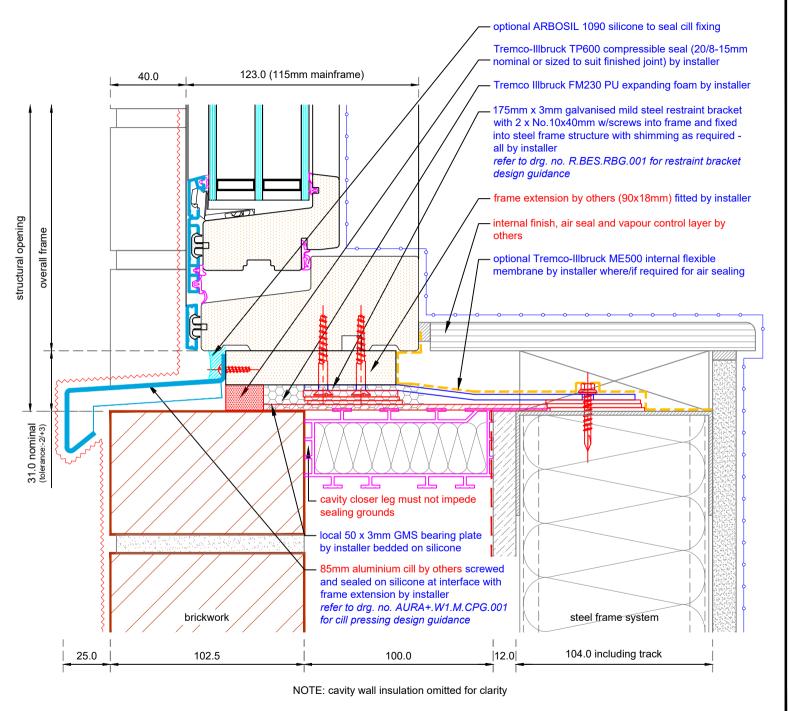
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Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

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brick/steel frame system

Scale: 1:2 approx @ A4 January 2017

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NOTE: cavity wall insulation omitted for clarity 104.0 including track 102.5 100.0 12.0 steel frame system brickwork cavity closer leg must not impede sealing grounds -11.0 nominal (tolerance:-2/+3) optional Tremco-Illbruck ME500 internal flexible structural opening membrane by installer where/if required for air sealing overall frame internal finish, air seal and vapour control layer by 175mm x 3mm galvanised mild steel restraint bracket with 2 x No.10x30mm w/screws into frame and fixed into steel frame structure with shimming as required all by installer refer to drg. no. R.BES.RBG.001 for restraint bracket design quidance Tremco Illbruck FM230 PU expanding foam by installer - Tremco-Illbruck TP600 compressible seal (25/10-18mm 123.0 (115mm mainframe) 40.0 nominal or sized to suit finished joint) by installer

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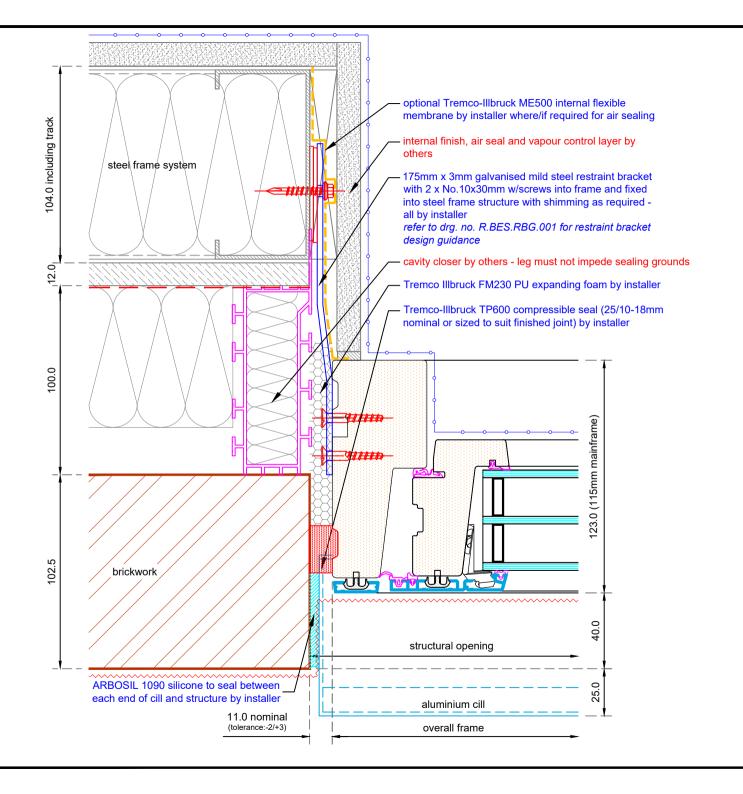
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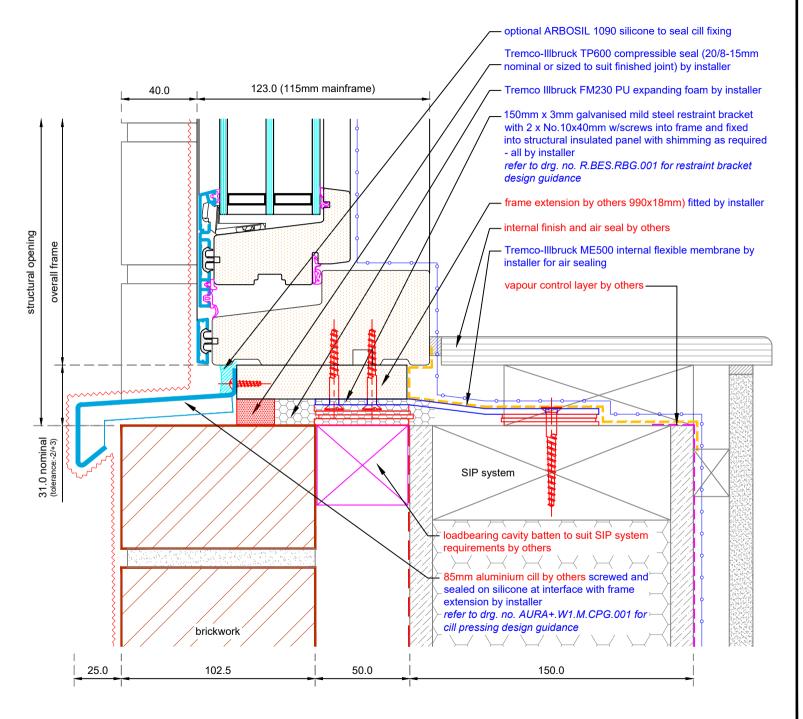
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Rationel AURAPLUS TYPICAL CILL DETAIL

brick/structural insulated panel

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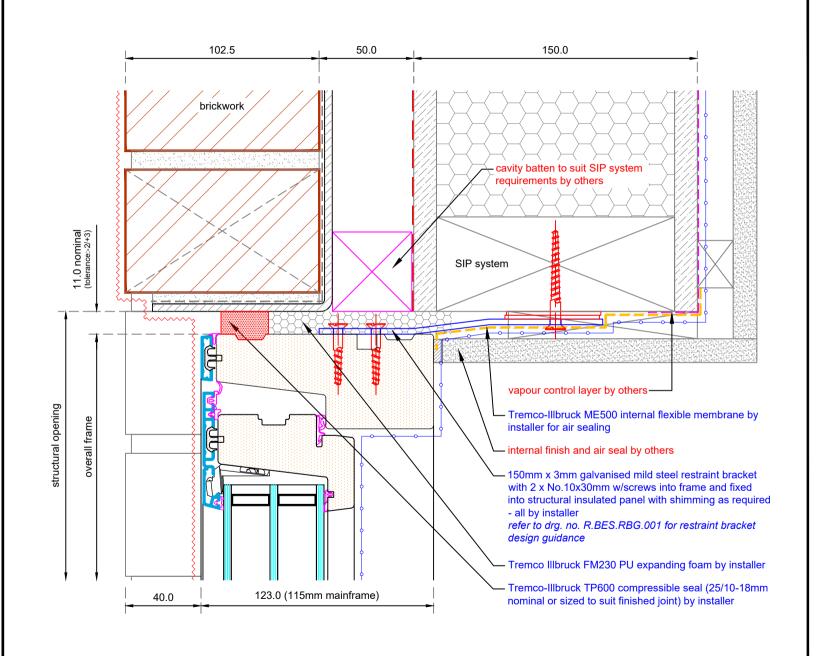
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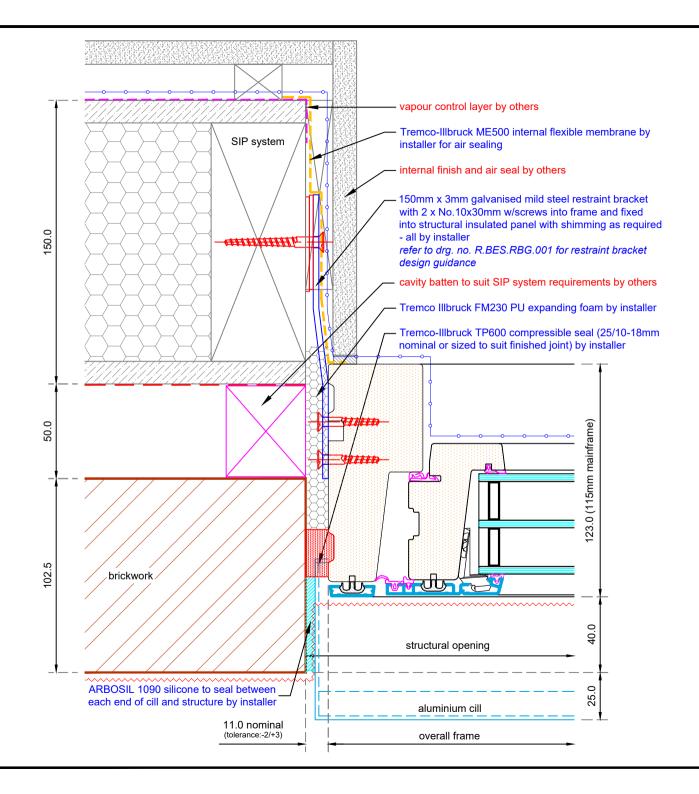
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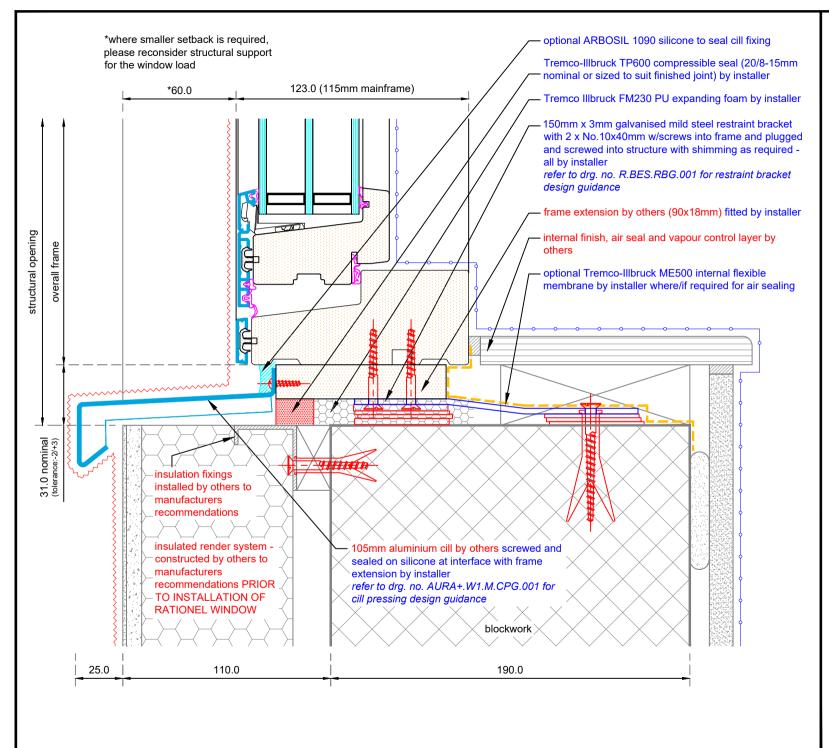
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Rationel AURAPLUS TYPICAL CILL DETAIL

insulated render/block masonry

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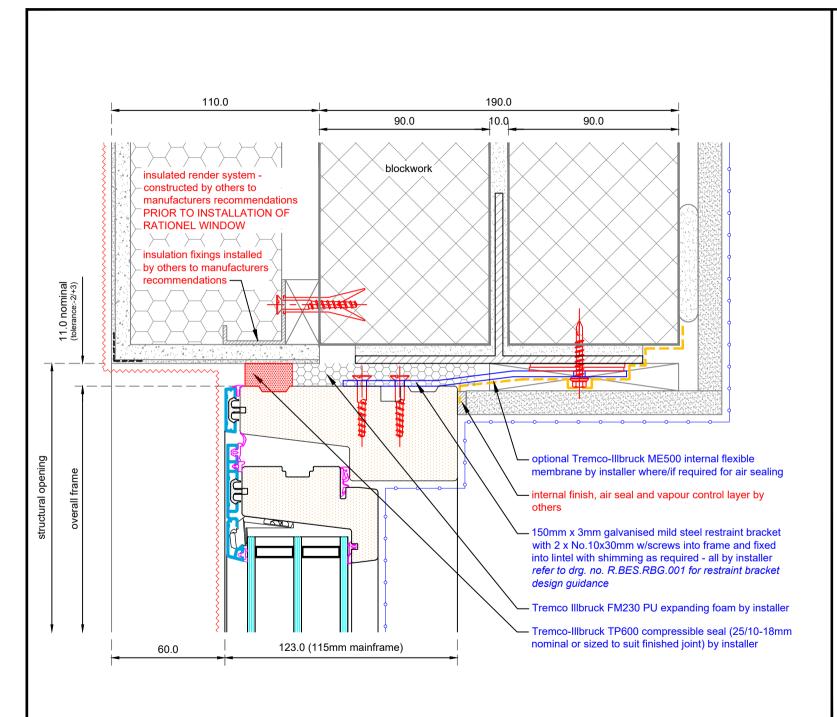
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Rationel AURAPLUS TYPICAL HEAD DETAIL

insulated render/block masonry

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Drawing no:

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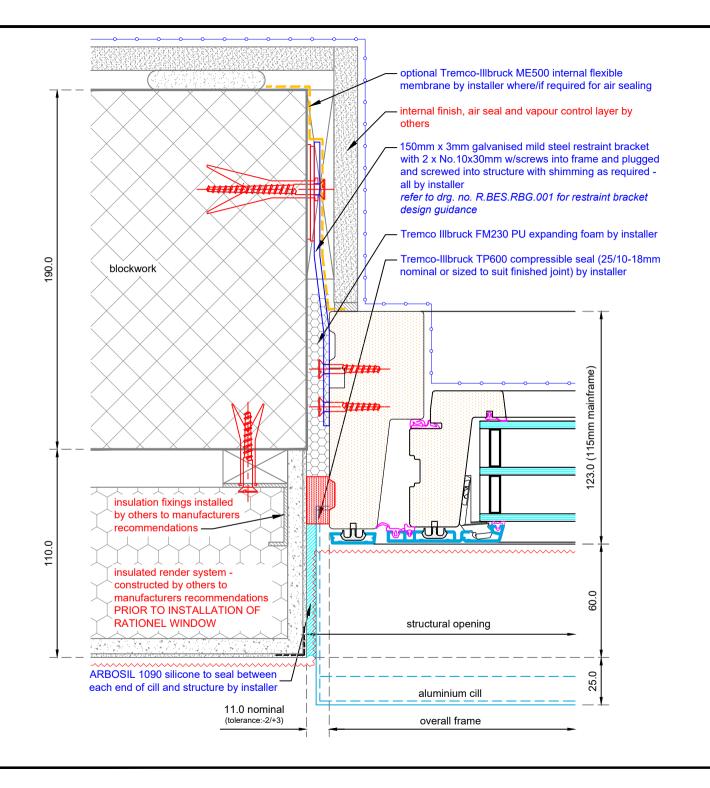
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*where smaller setback is required, please reconsider structural support for the window load optional ARBOSIL 1090 silicone to seal cill fixing 123.0 (115mm mainframe) *60.0 Tremco-Illbruck TP600 compressible seal (20/8-15mm nominal or sized to suit finished joint) by installer Tremco Illbruck FM230 PU expanding foam by installer 125mm x 3mm galvanised mild steel restraint bracket with 2 x No.10x40mm w/screws into frame and fixed into timber frame structure with shimming as required - all by installer refer to drg. no. R.BES.RBG.001 for restraint bracket design quidance structural opening overall frame frame extension by others (90x18mm) fitted by installer - internal finish and air seal by others Tremco-Illbruck ME500 internal flexible membrane by installer for air sealing 31.0 nominal (tolerance:-2/+3) vapour control **Timber Frame** layer by others insulation fixings installed by main contractor to manufacturers NOTE: timber frame insulation omitted for clarity recommendations 105mm aluminium cill by others screwed and insulated render system sealed on silicone at interface with frame constructed by main contractor to extension by installer manufacturers recommendations refer to drg. no. AURA+.W1.M.CPG.001 for cill PRIOR TO INSTALLATION OF pressing design guidance **RATIONEL WINDOW** 18.0 25.0 140.0

PLEASE NOTE:

this detail assumes there is no differential movement between the external building finish and the structural timber frame i.e. - external finish is fixed directly to timber frame and any required movement joints are outside of the window zone.

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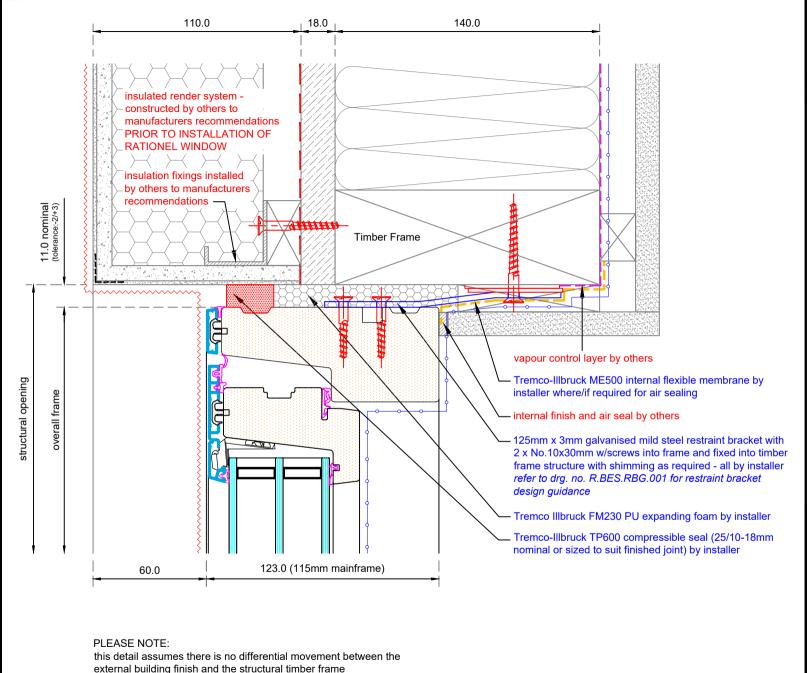
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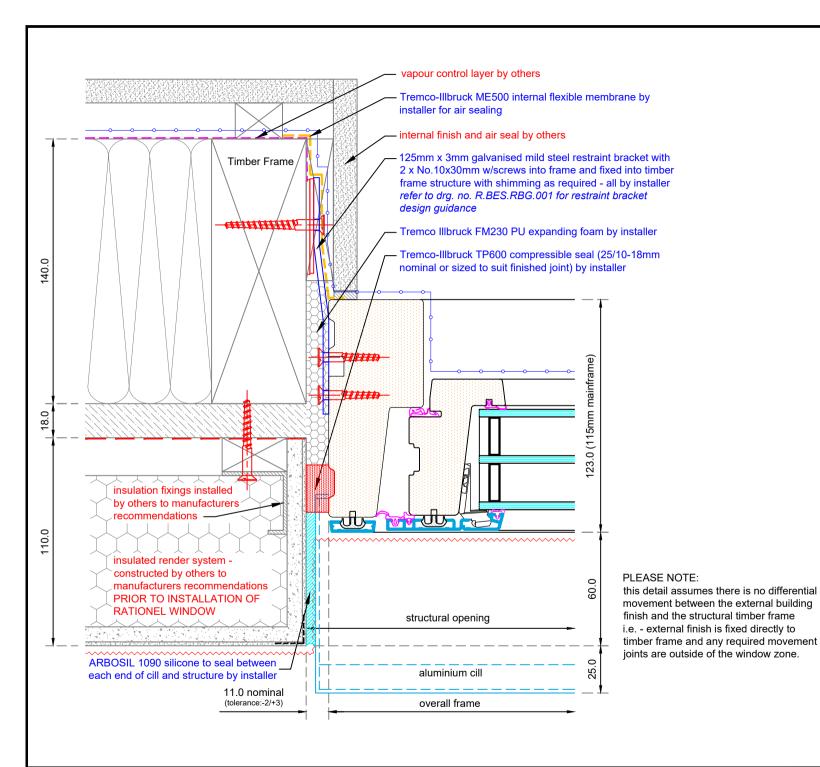
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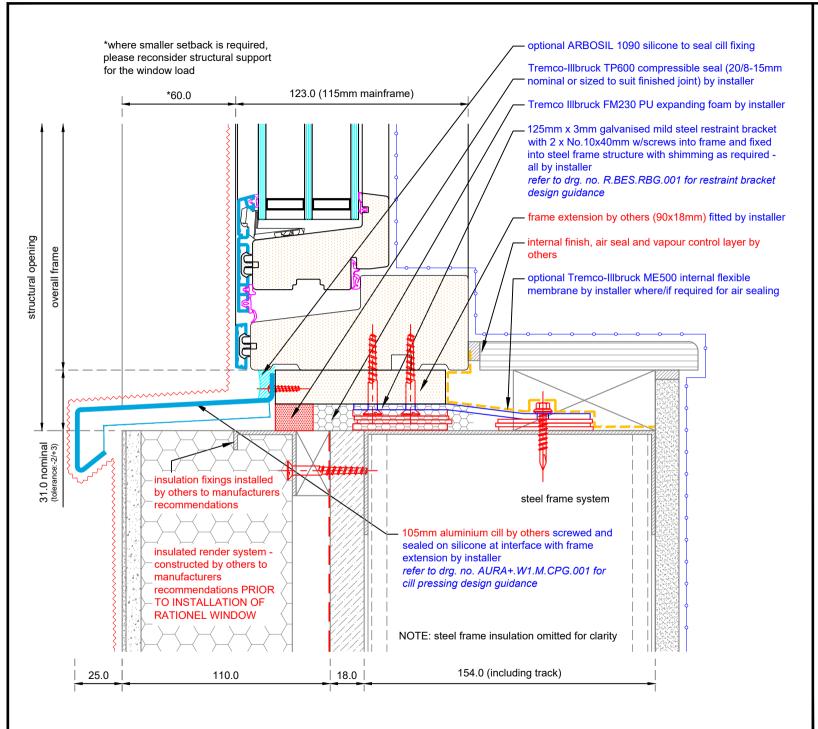
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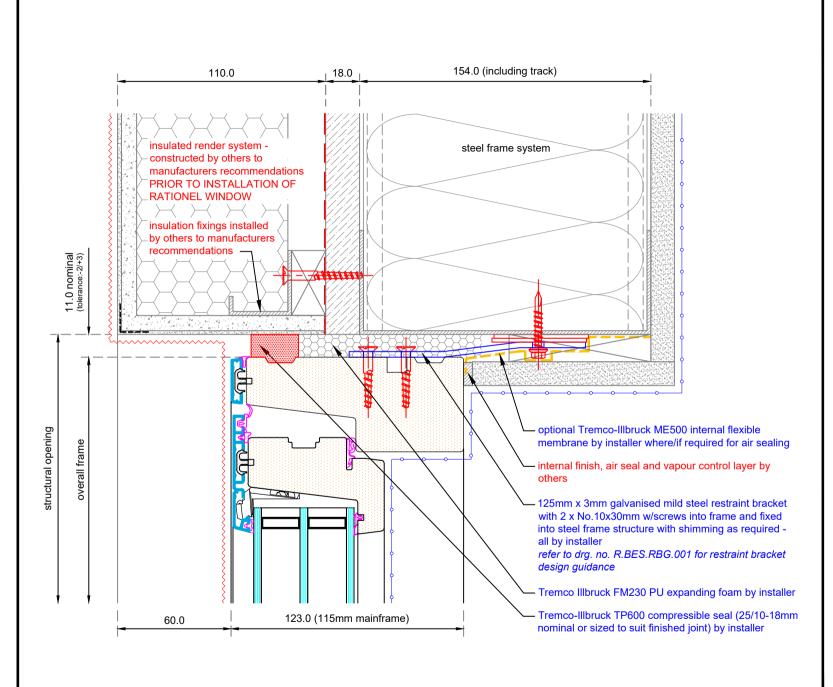
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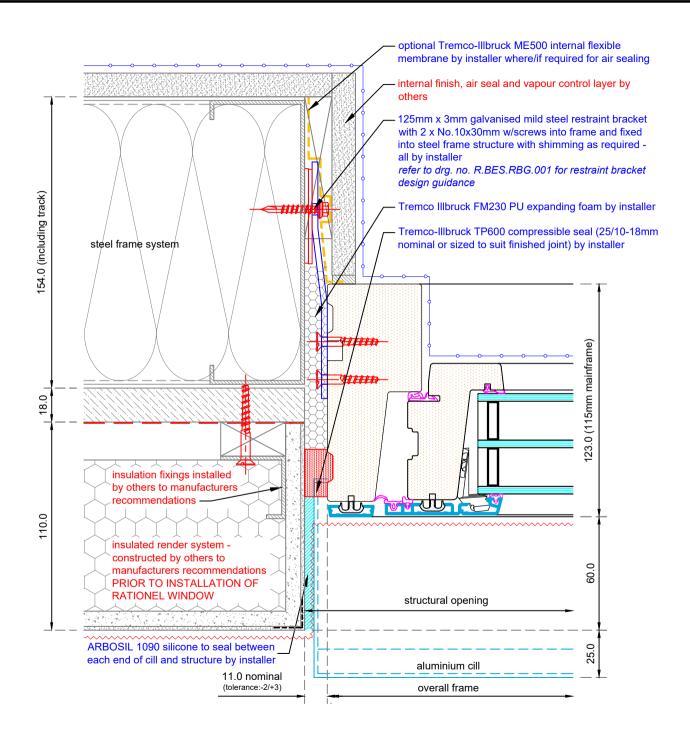
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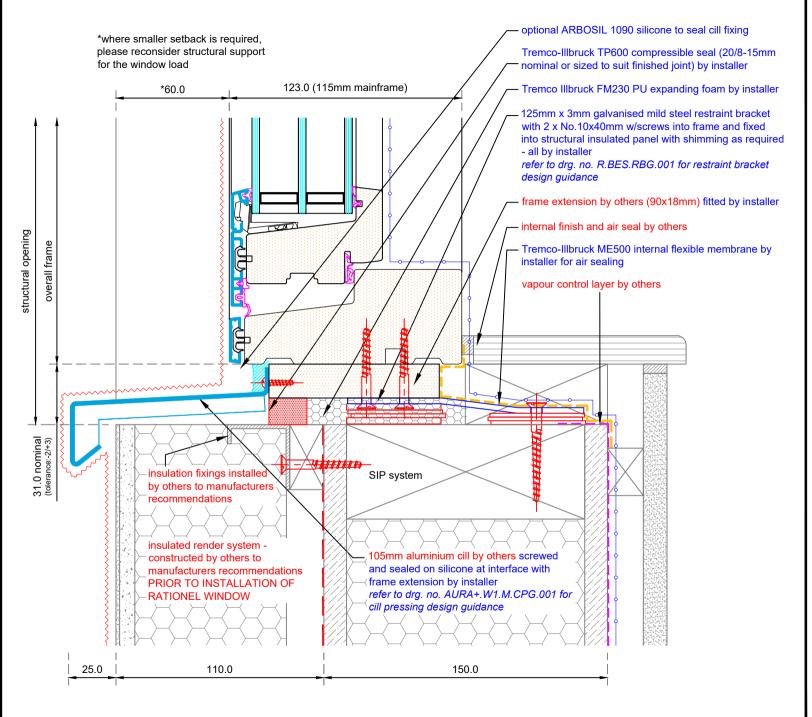
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insulated render/structural insulated panel

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Drawing no:

AURA+.W1.02.D.C.001

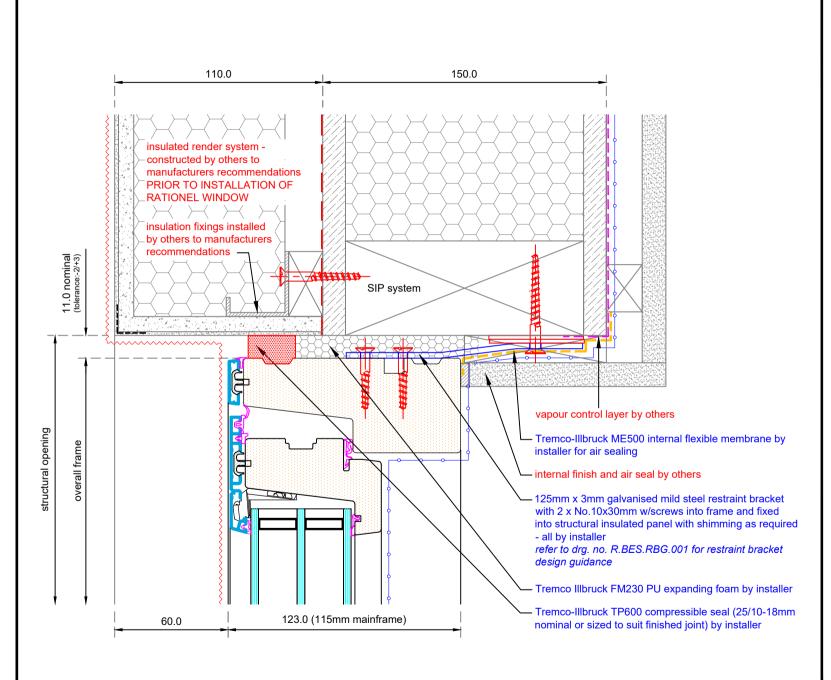
Status: approved

Revision:



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tel: 01869 248181 fax: 01869 249693 web: www.rationel.co.uk



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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL HEAD DETAIL

approved

insulated render/structural insulated panel

Scale: 1:2 approx @ A4

Date: January 2017

Drawn: Studio62

AURA+.W1.02.D.H.001

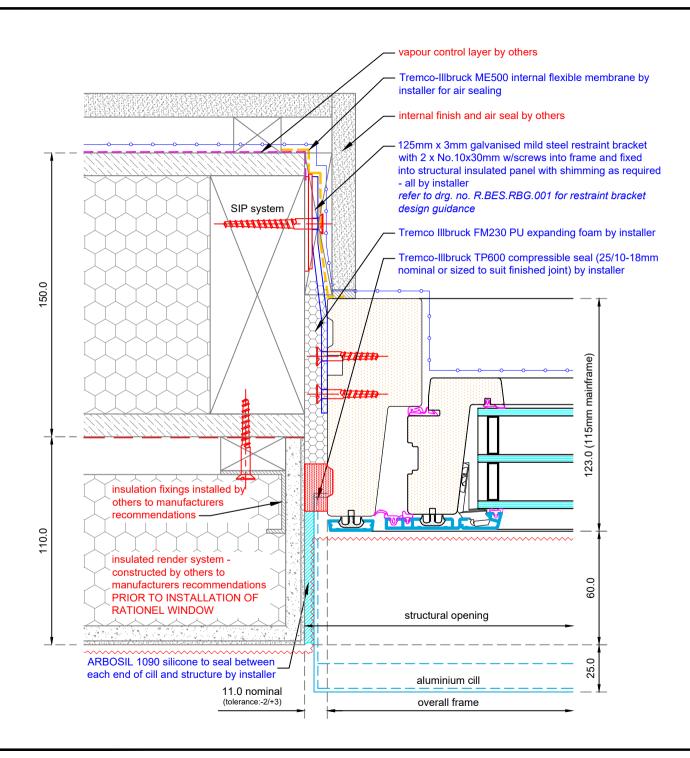
Status:

Drawing no:

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primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL JAMB DETAIL

insulated render/structural insulated panel

Scale: 1:2 approx @ A4

Date: January 2017

Drawn: Studio62

Drawing no:

AURA+

AURA+.W1.02.D.J.001

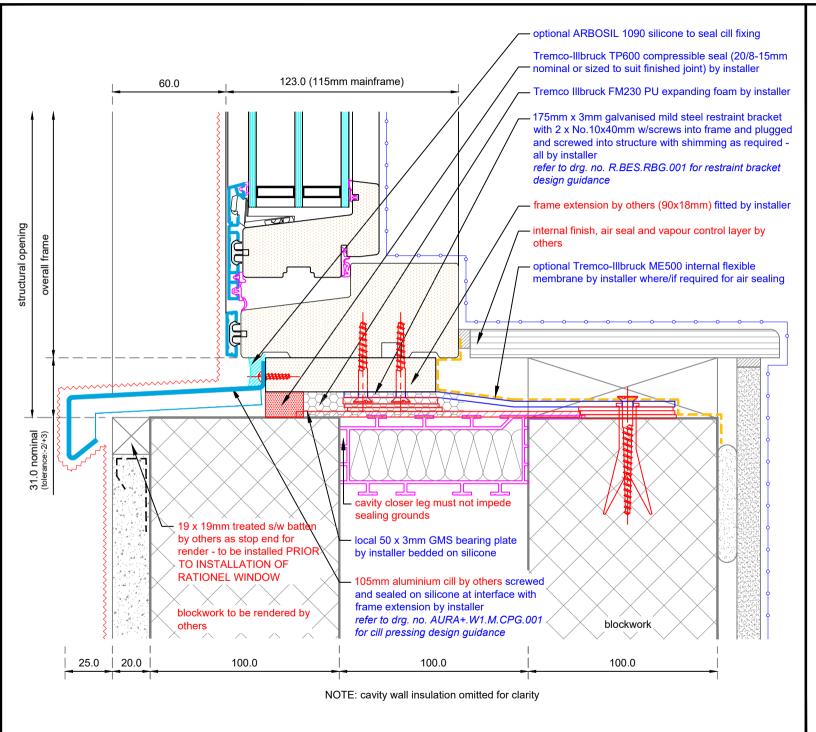
Status:

approved Rev

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primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS
TYPICAL CILL DETAIL

rendered block/block masonry

approved

Scale: 1:2 approx @ A4

Date: January 2017

Drawn: Studio62

AURA+.W1.03.A.C.001

Status:

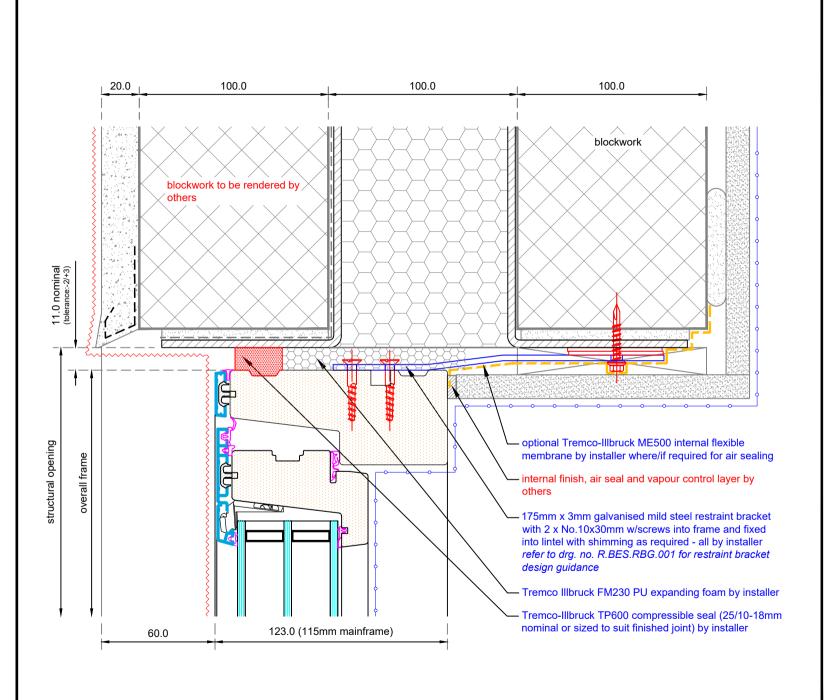
Pavision:

Drawing no:



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primary weather line
primary air barrier line



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ĺ	Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL HEAD DETAIL

rendered block/block masonry

Studio62

approved

Scale: 1:2 approx @ A4

Date: January 2017

AURA+.W1.03.A.H.001

Drawn: Status:

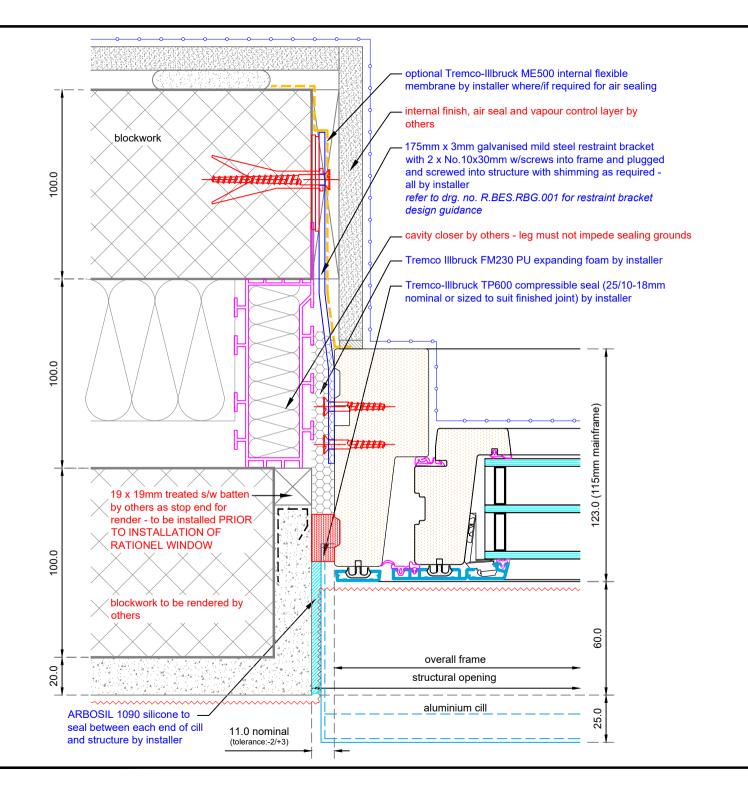
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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

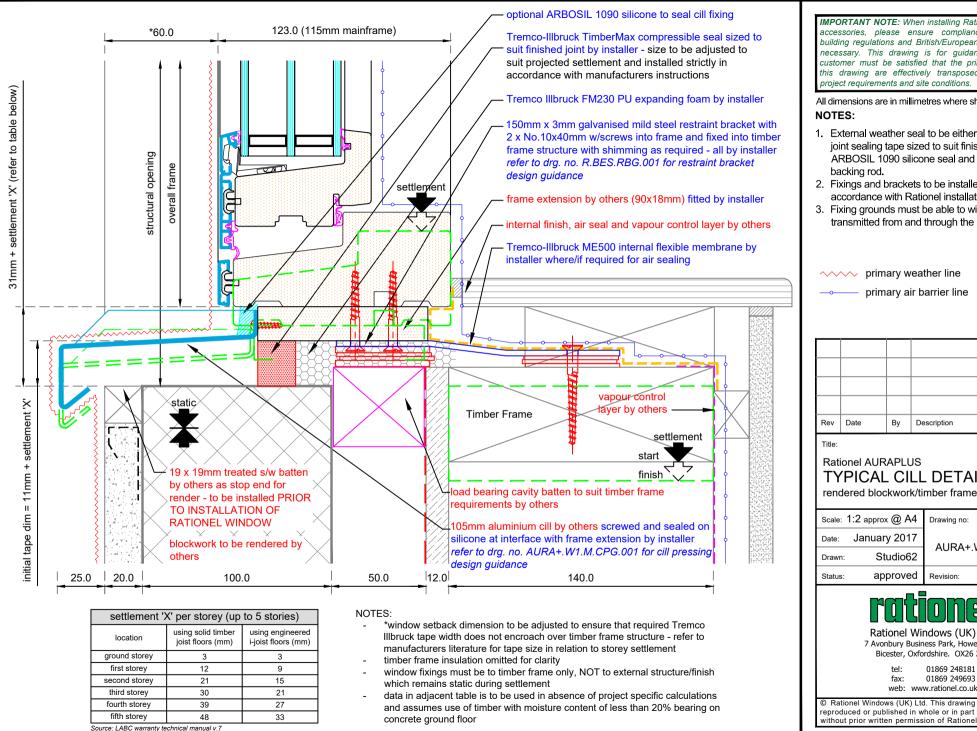
Rationel AURAPLUS TYPICAL JAMB DETAIL

rendered block/block masonry

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>>>> primary weather line primary air barrier line





Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

Studio62

approved

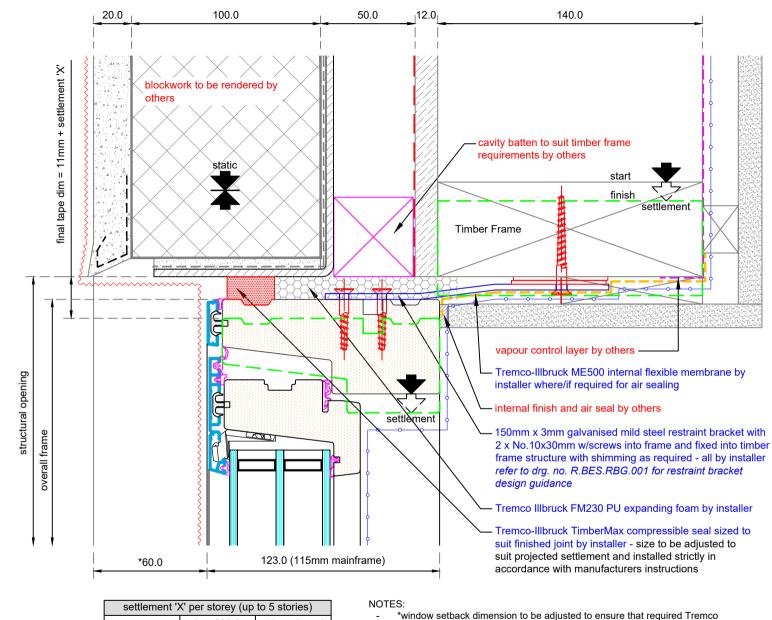
Scale: 1:2 approx @ A4 January 2017 Drawing no:

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settlement 'X' per storey (up to 5 stories)							
location	using solid timber joist floors (mm)	using engineered i-joist floors (mm)					
ground storey	3	3					
first storey	12	9					
second storey	21	15					
third storey	30	21					
fourth storey	39	27					
fifth storey	48	33					

Source: LABC warranty technical manual v.7

- *window setback dimension to be adjusted to ensure that required Tremco
 Illbruck tape width does not encroach over timber frame structure refer to
 manufacturers literature for tape size in relation to storey settlement
- timber frame insulation omitted for clarity
- window fixings must be to timber frame only, NOT to external structure/finish which remains static during settlement
- data in adjacent table is to be used in absence of project specific calculations and assumes use of timber with moisture content of less than 20% bearing on concrete ground floor

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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Drawn:

Rationel AURAPLUS TYPICAL HEAD DETAIL

rendered blockwork/timber frame

Scale: 1:2 approx @ A4

Date: January 2017

Studio62

AURA+.W1.03.B.H.001

Status: approved

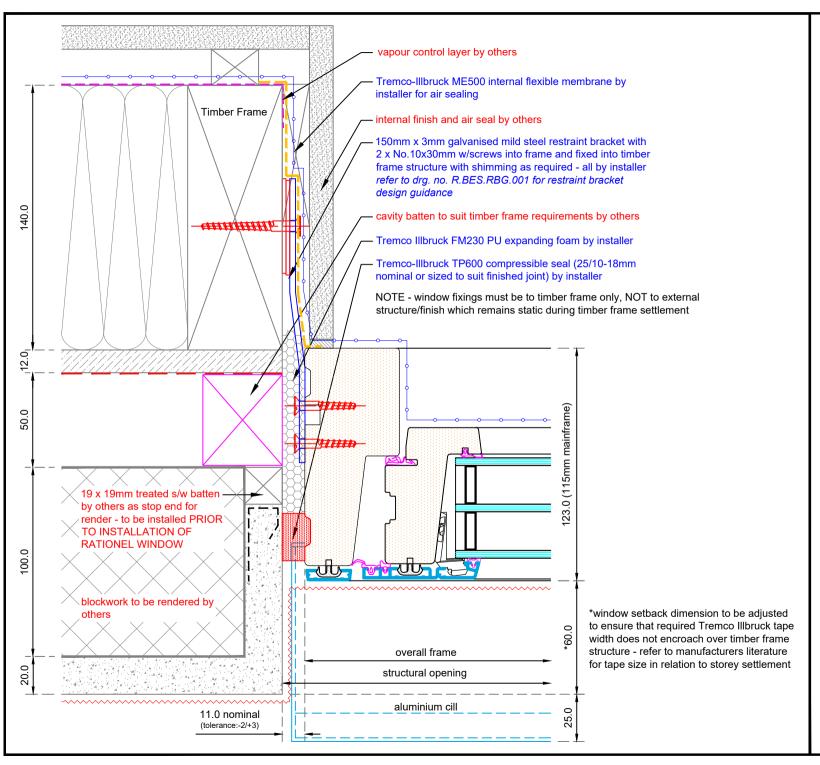
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primary weather line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL JAMB DETAIL

rendered blockwork/timber frame

Scale: 1:2 approx @ A4

Date: January 2017

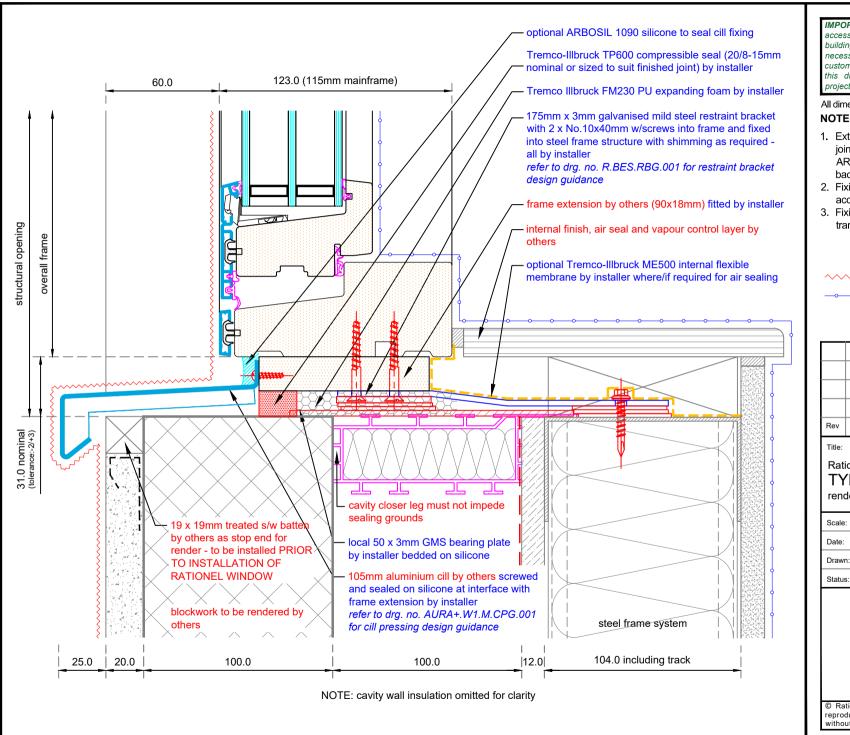
Drawn: Studio62

Status: approved Revision:



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>>>> primary weather line primary air barrier line



Rev	Date	Ву	Description

Rationel AURAPLUS TYPICAL CILL DETAIL

rendered blockwork/steel frame system

approved

Scale: 1:2 approx @ A4 January 2017 Studio62

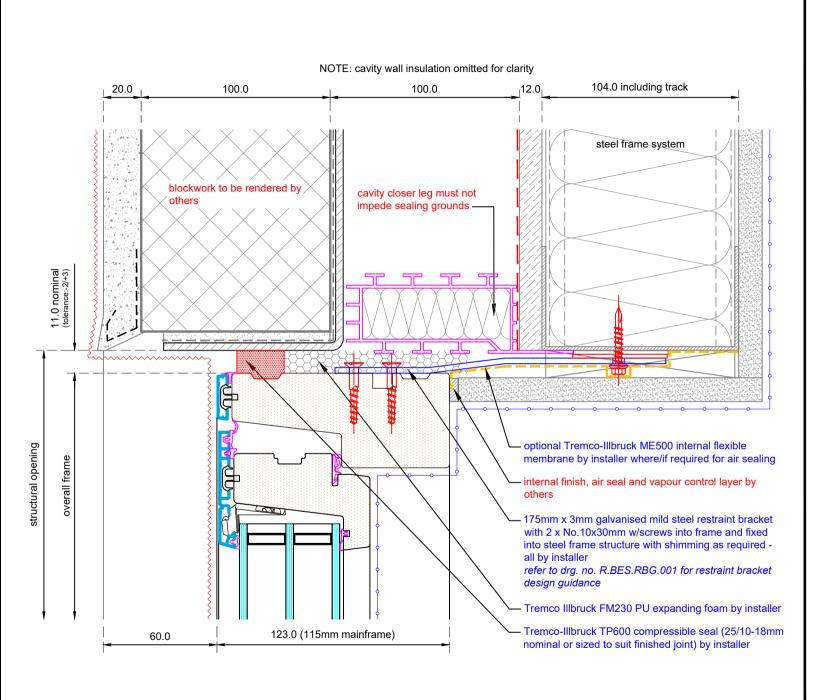
AURA+.W1.03.C.C.001

Status:

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primary weather line
primary air barrier line



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Title:

Rationel AURAPLUS TYPICAL HEAD DETAIL

rendered blockwork/steel frame system

 Scale: 1:2 approx @ A4
 Drawing no:

 Date:
 January 2017

 Drawn:
 Studio62

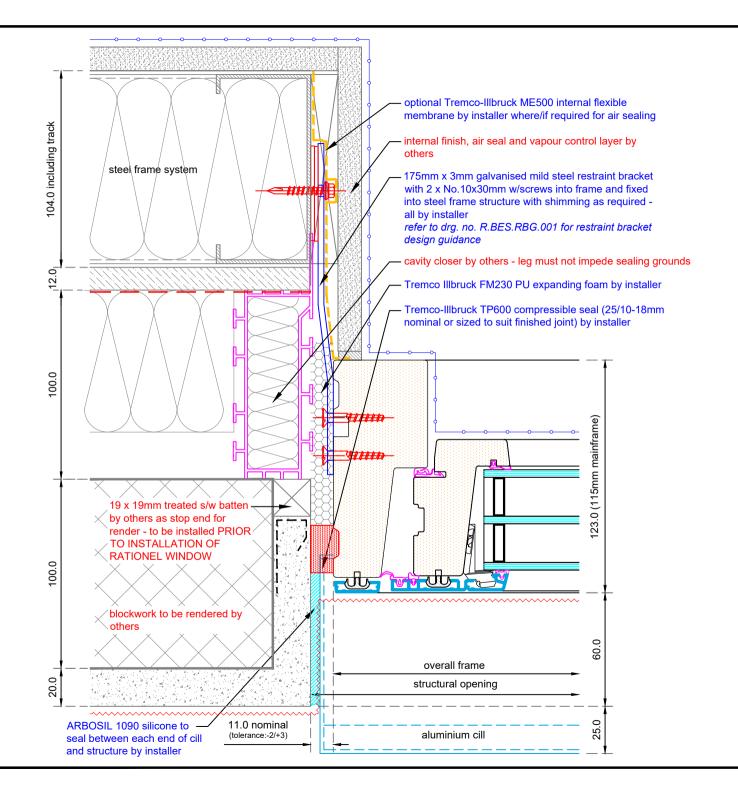
 Status:
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primary weather line
primary air barrier line



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Rev	Date	Ву	Description

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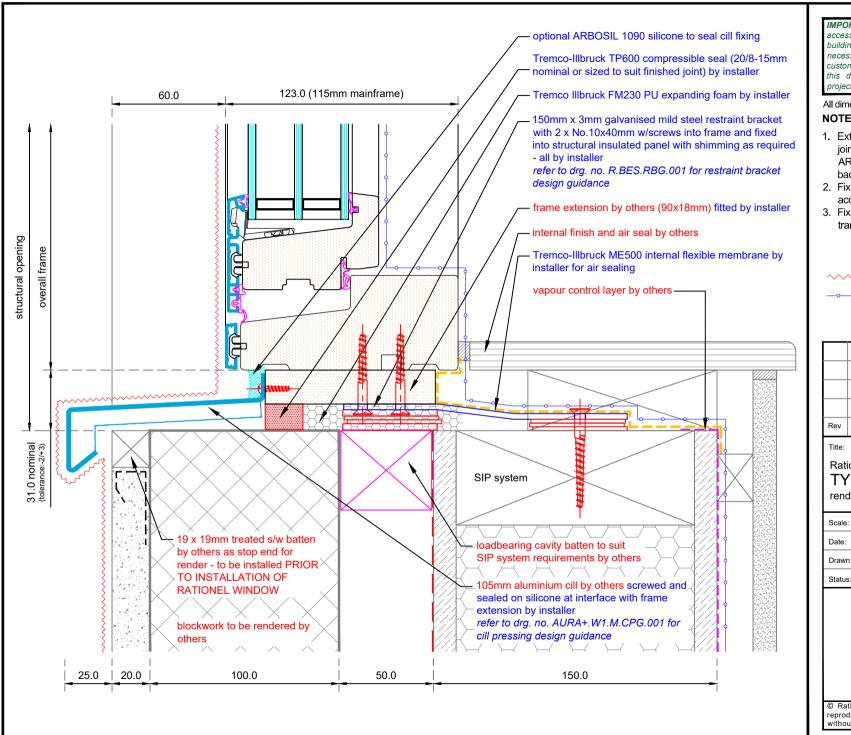
Rationel AURAPLUS TYPICAL JAMB DETAIL

rendered blockwork/steel frame system



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>>>> primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

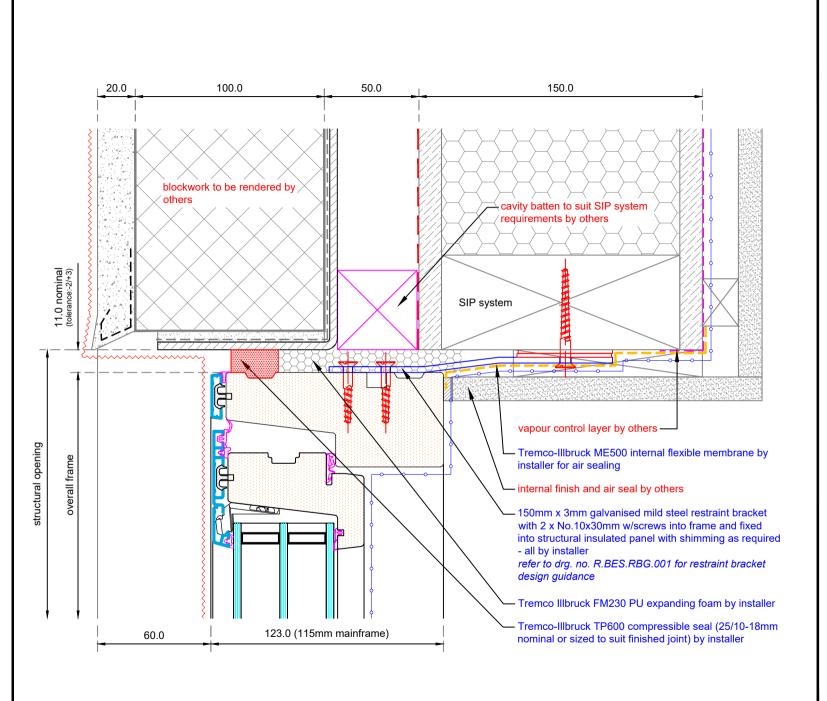
rendered blockwork/structural insulated panel

Scale: 1:2 approx @ A4 Drawing no: January 2017 AURA+.W1.03.D.C.001 Studio62 Drawn: approved



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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL HEAD DETAIL

rendered blockwork/structural insulated panel

Scale: 1:2 approx @ A4

Date: January 2017

Drawing no:

AURA+.W1.03.D.H.001

Drawn: Status:

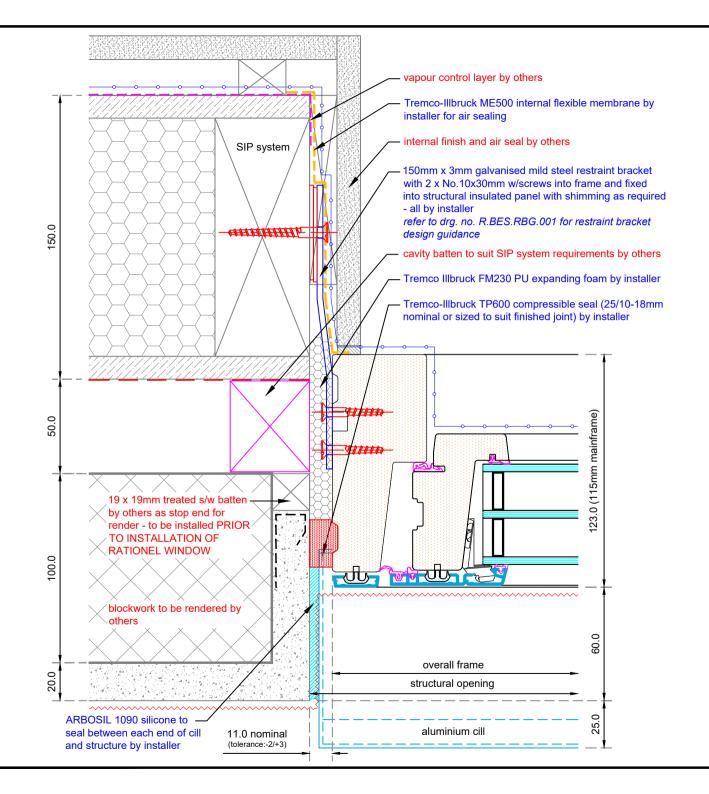
approved Revi

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primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL JAMB DETAIL

rendered blockwork/structural insulated panel

 Scale: 1:2 approx @ A4
 Drawing no:

 Date:
 January 2017

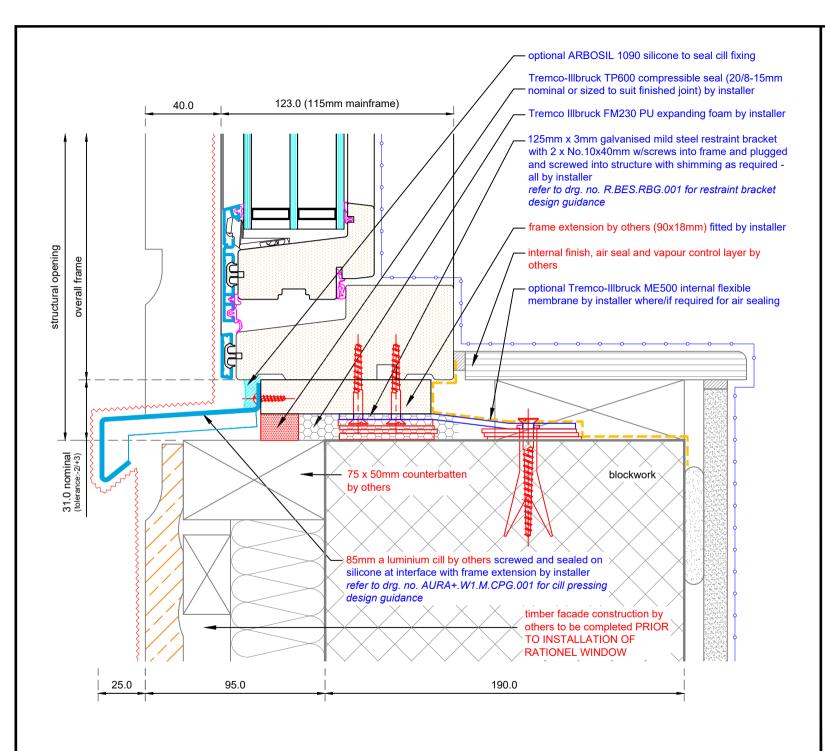
 Drawn:
 Studio62

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primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

timber/block masonry

Scale: 1:2 approx @ A4

Date: January 2017

Drawing no:

Drawn: Studio62

AURA+.W1.04.A.C.001

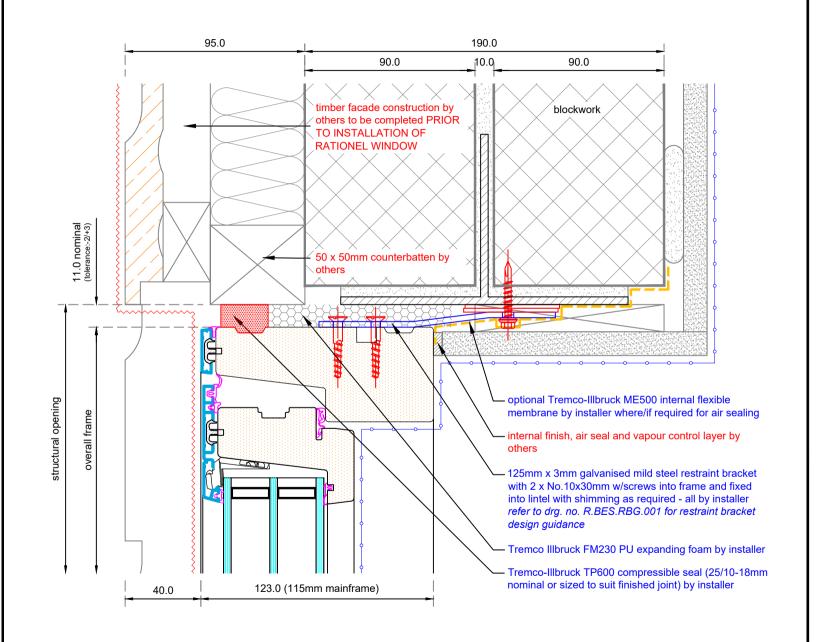
Status:

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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS
TYPICAL HEAD DETAIL

timber/block masonry

Scale: 1:2 approx @ A4 Drawing no:

Date: January 2017

Studio62

AURA+.W1.04.A.H.001

Status:

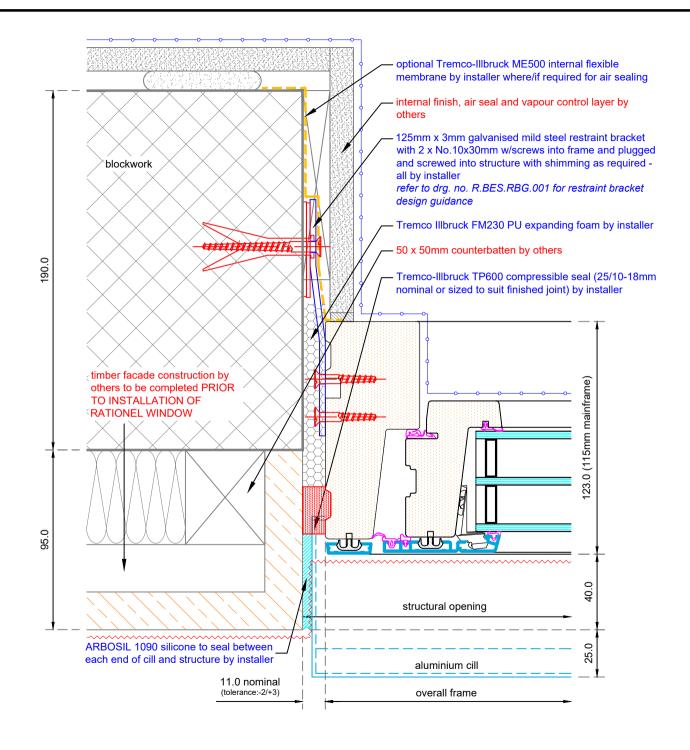
Drawn:

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primary weather line primary air barrier line



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	Rev	Date	Ву	Description

Title:

Rationel AURAPLUS
TYPICAL JAMB DETAIL

timber/block masonry

 Scale: 1:2 approx @ A4
 Drawing no:

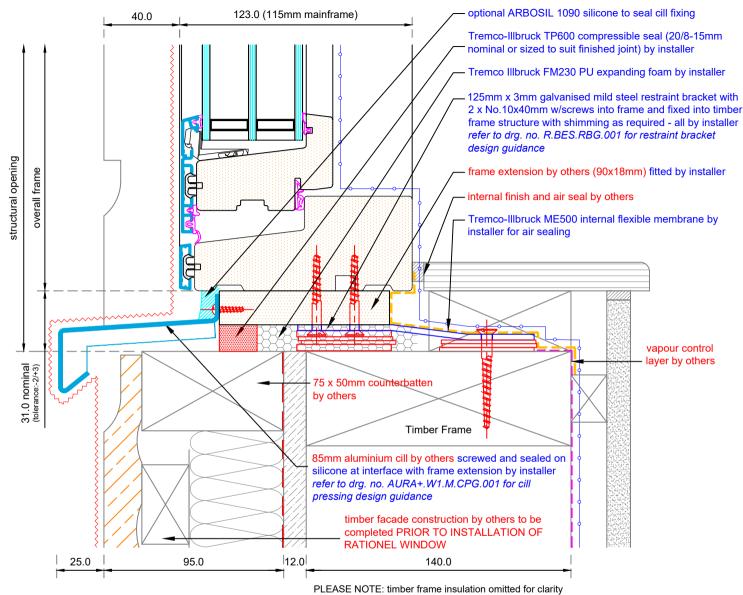
 Date: January 2017
 AURA+.W1.04.A.J.001

Status: approved Re

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PLEASE NOTE:

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>>>> primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

Studio62

approved

timber/timber frame

Scale: 1:2 approx @ A4 January 2017

AURA+.W1.04.B.C.001

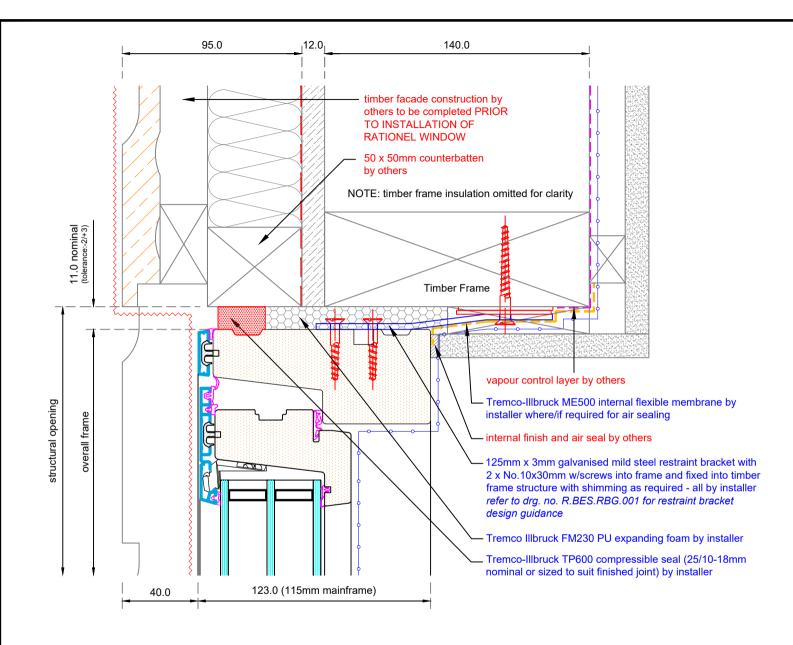
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Drawn:

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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS
TYPICAL HEAD DETAIL

timber/timber frame

Scale: 1:2 approx @ A4 Drawing no:

Date: January 2017

Studio62

approved

AURA+.W1.04.B.H.001

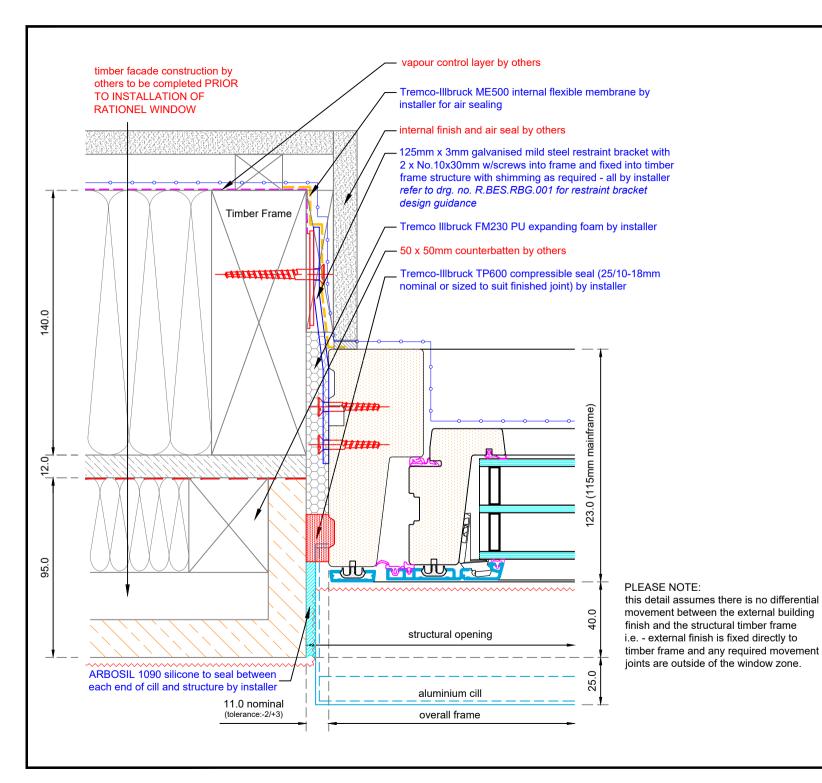
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primary weather line



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TYPICAL JAMB DETAIL

timber/timber frame

Scale: 1:2 approx @ A4

Date: January 2017

Drawn: Studio62 AURA+.W1.04.B.J.001

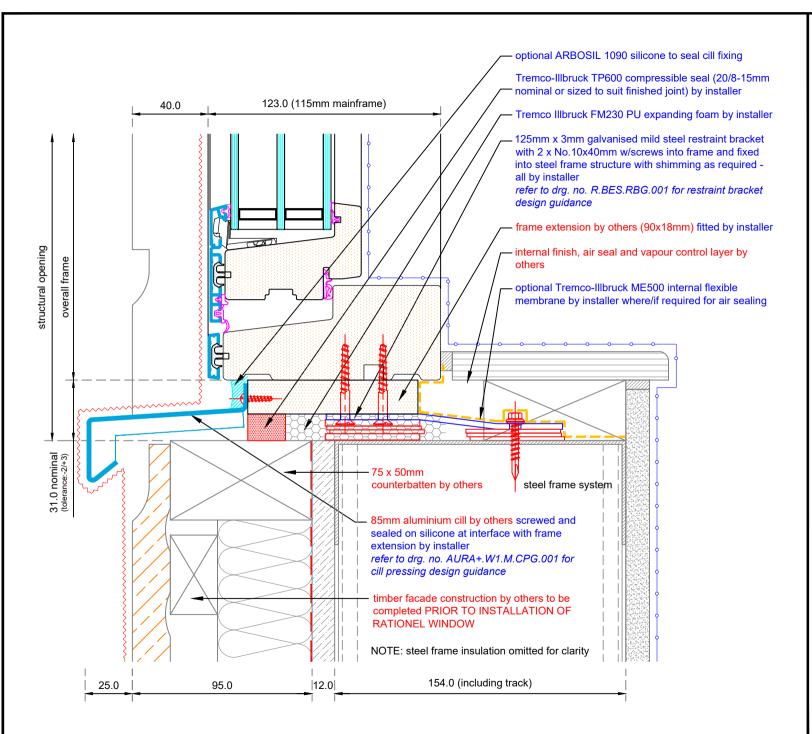
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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

timber/steel frame system

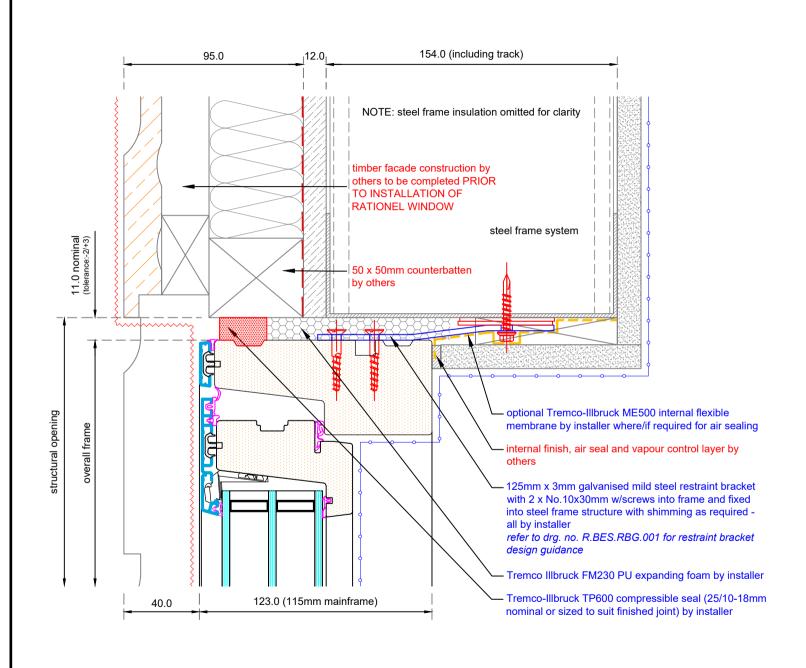
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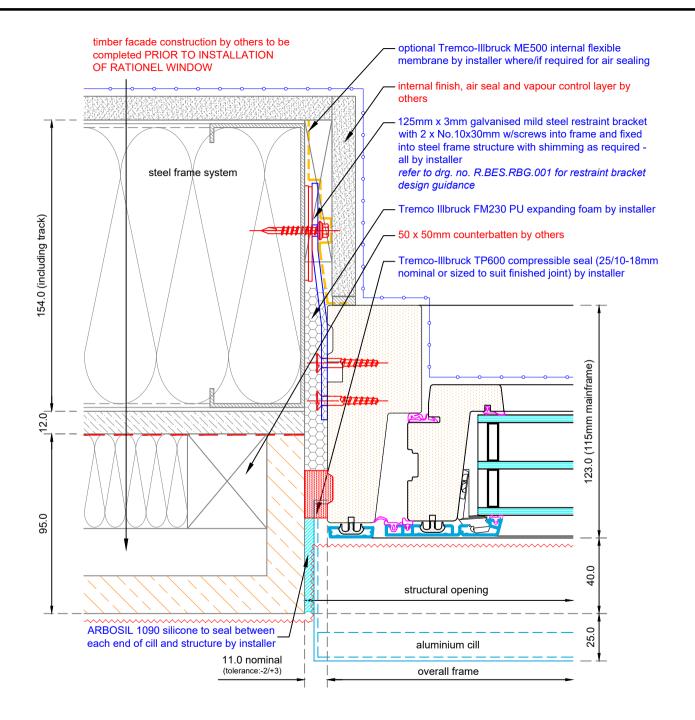
Rationel AURAPLUS TYPICAL HEAD DETAIL

timber/steel frame system



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primary weather line
primary air barrier line



Rev	Date	Ву	Description

Title:

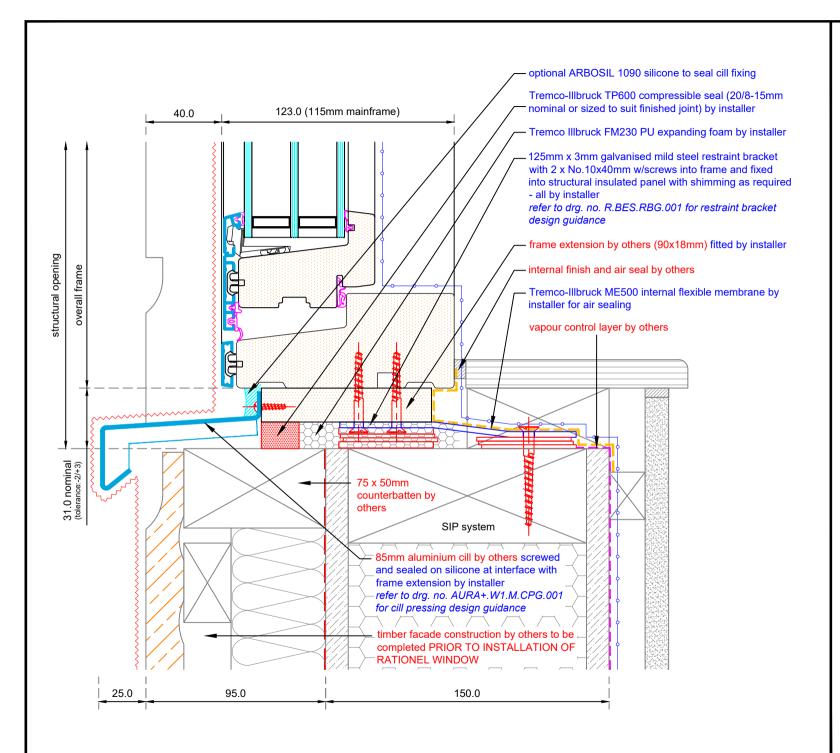
Rationel AURAPLUS TYPICAL JAMB DETAIL

timber/steel frame system



Rationel Windows (UK) Ltd.
7 Avonbury Business Park, Howes Lane,
Bicester, Oxfordshire. OX26 2UA

tel: 01869 248181 fax: 01869 249693 web: www.rationel.co.uk



All dimensions are in millimetres where shown. Do not scale. **NOTES:**

- External weather seal to be either Tremco-Illbruck joint sealing tape sized to suit finished joint size or ARBOSIL 1090 silicone seal and polyethelene backing rod.
- Fixings and brackets to be installed strictly in accordance with Rationel installation guidance.
- Fixing grounds must be able to withstand all loads transmitted from and through the Rationel system.

primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL CILL DETAIL

timber/structural insulated panel

 Scale: 1:2 approx @ A4
 Drawing no:

 Date:
 January 2017

 Drawn:
 Studio62

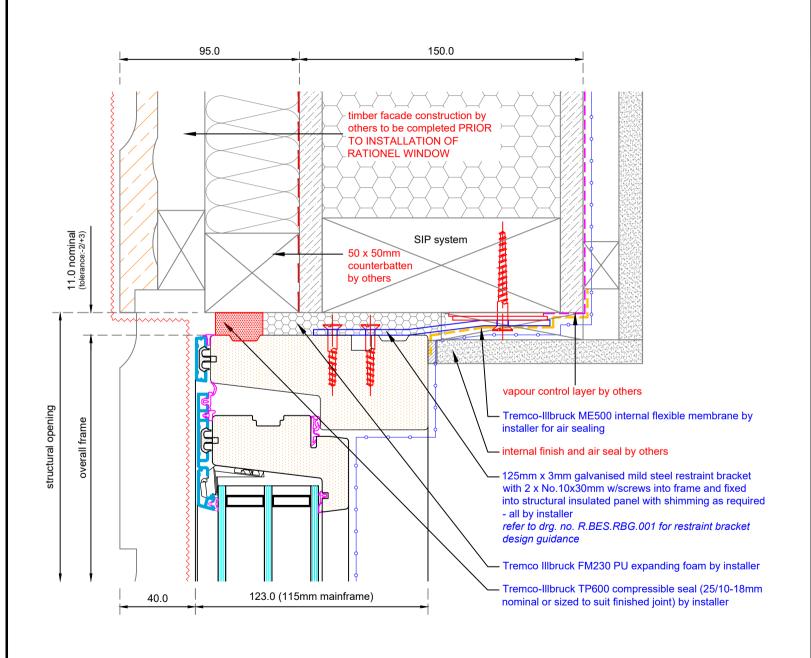
 Status:
 approved

 Revision:



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primary weather line
primary air barrier line



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	Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL HEAD DETAIL

timber/structural insulated panel

 Scale:
 1:2 approx @ A4
 Drawing no:

 Date:
 January 2017

 Drawn:
 Studio62

Drawing no:

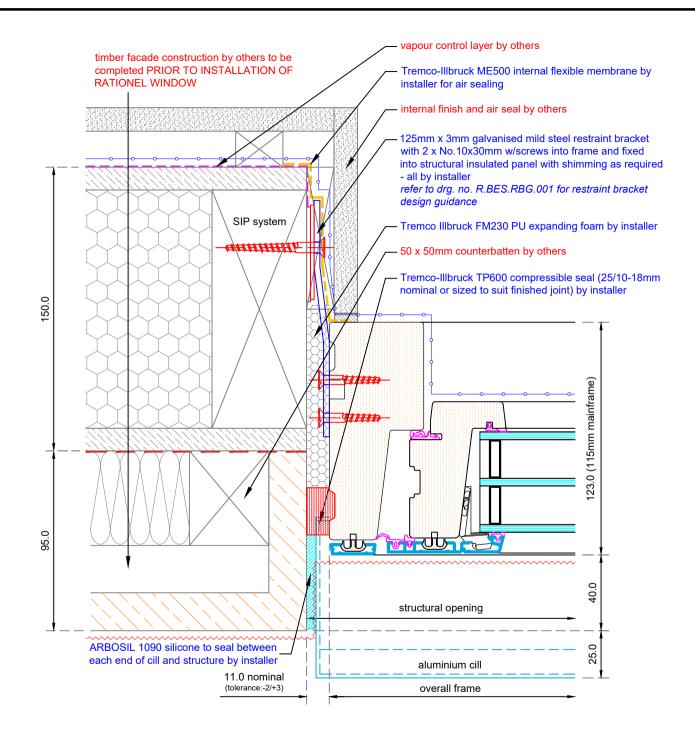
AURA+.W1.04.D.H.001

Status: approved Revision



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primary weather line primary air barrier line



Rev	Date	Ву	Description

Title:

Rationel AURAPLUS TYPICAL JAMB DETAIL

timber/structural insulated panel



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