

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

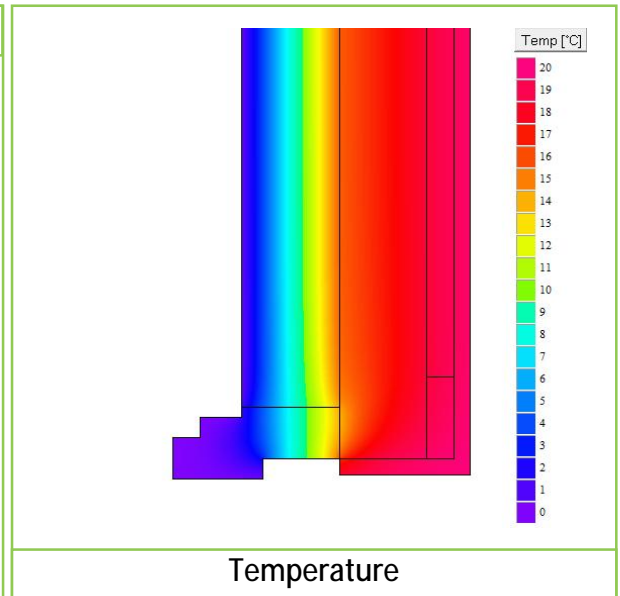
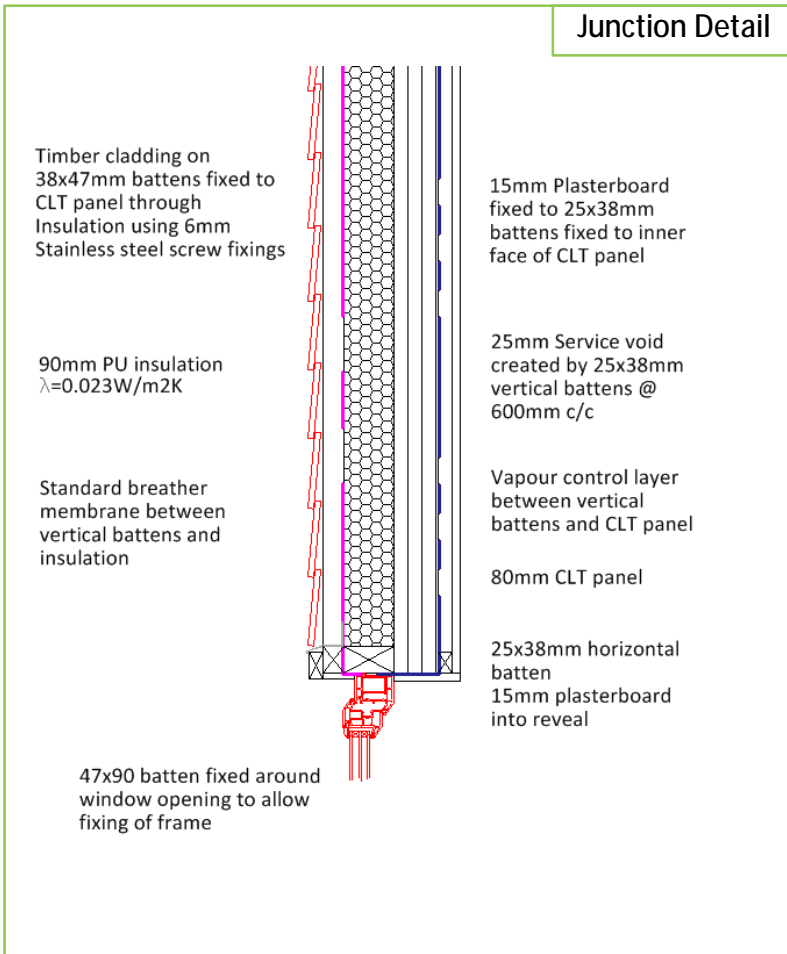


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External Wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Window	frame on outside of CLT panel
<b>Description:</b>	<b>Window head (Lintel)</b>	
<b>Reference:</b>	E2	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.032</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.919</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.

The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE

In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.

Calculations have been performed in accordance with:

**EN ISO 10211\_2007** (British Standards)

**IP 1/06 & BR497** (BRE Press)

and with reference to the following publications:

**EN ISO 6946** (British Standards)

**BR443** (BRE Press)

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

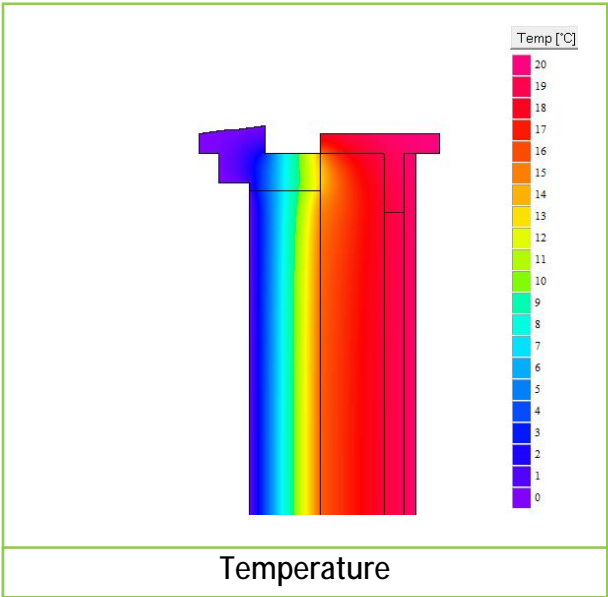
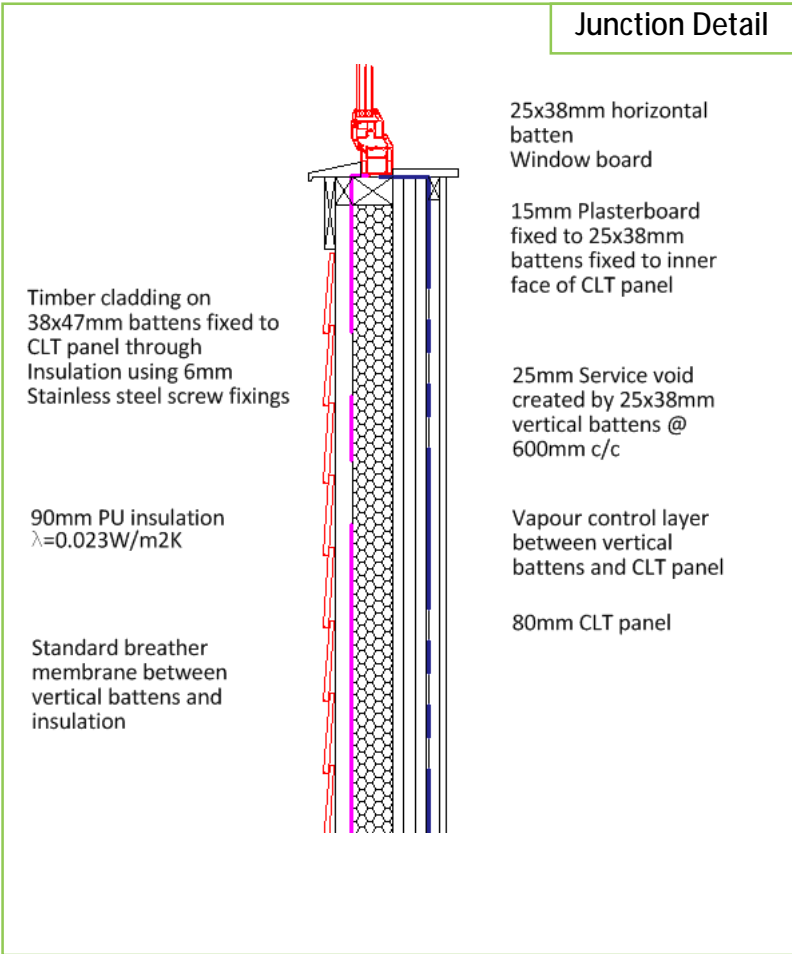


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Web: [www.storaenso.com/buildingandliving](http://www.storaenso.com/buildingandliving)

<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External Wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Window	frame on outside of CLT panel
<b>Description:</b>	<b>Window Cill</b>	
<b>Reference:</b>	E3	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.027</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.925</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
and with reference to the following publications:  
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**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

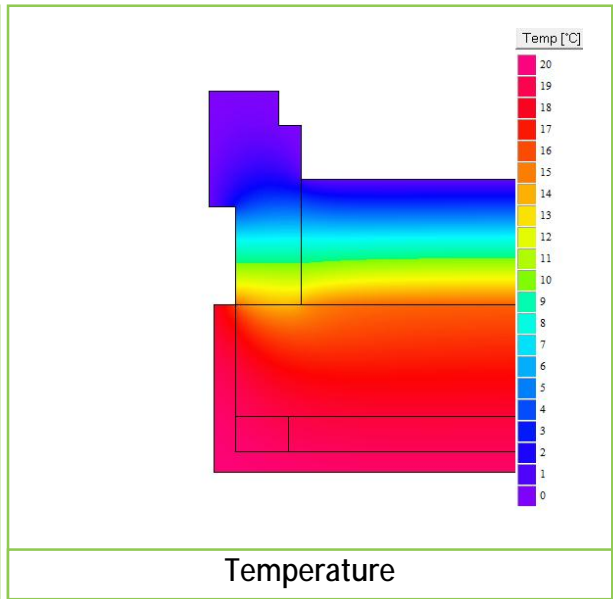
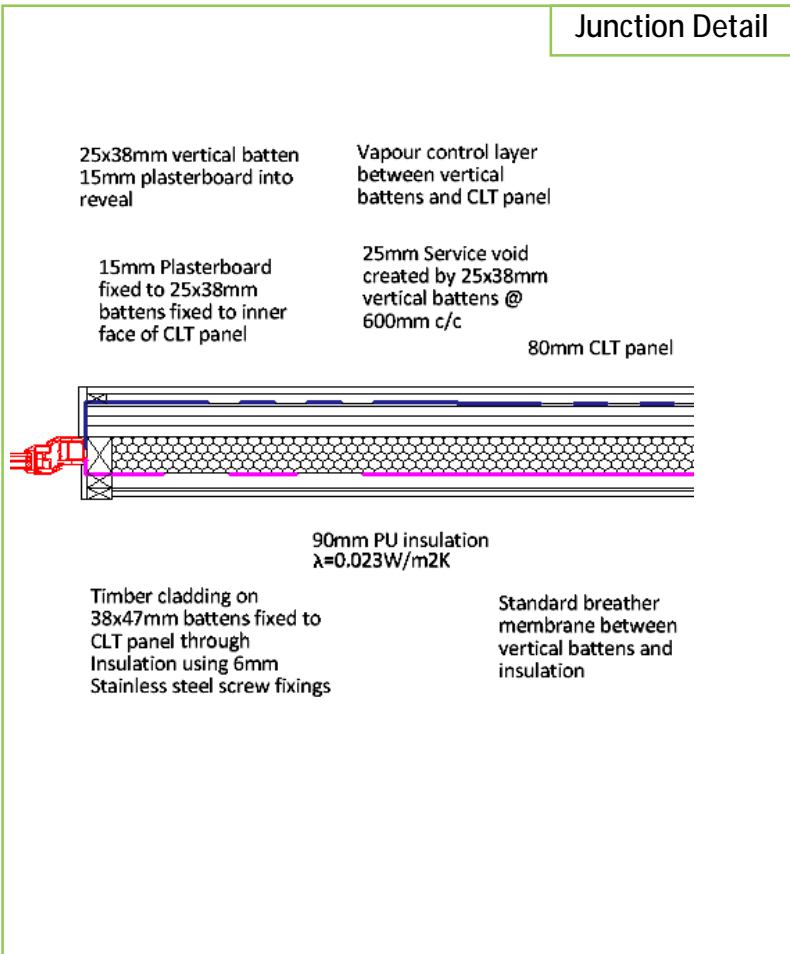


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Window	frame on outside of CLT panel
<b>Description:</b>	<b>Window Jamb</b>	
<b>Reference:</b>	E4	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.031</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.903</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

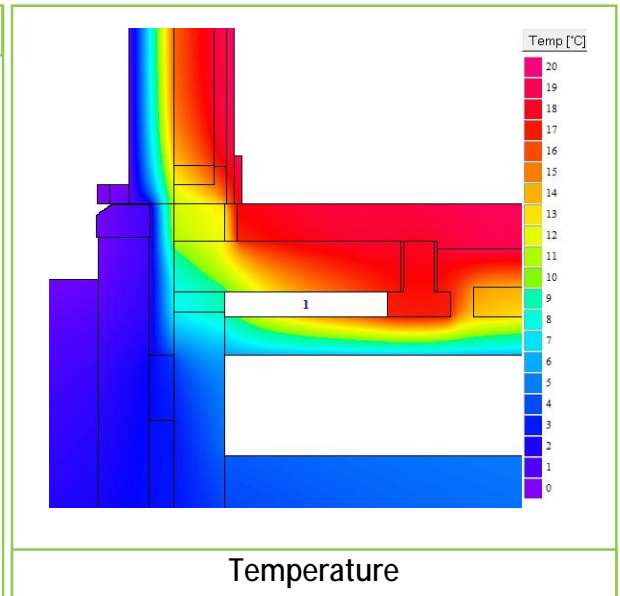
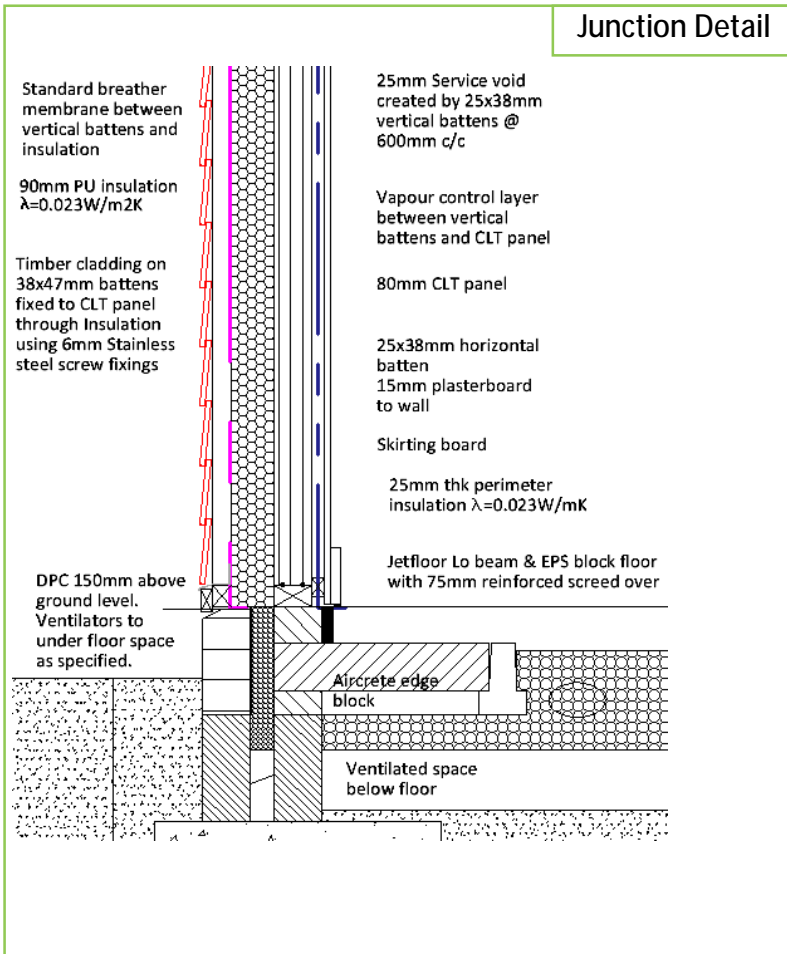
The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
and with reference to the following publications:  
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**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )



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<b>Certificate No:</b>	<b>C4TM – 001212 ver . 1</b>	<b>Issued:</b>	30th November 2012
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			38mm ventilated cavity external , 25mm service void internal
		Ground floor	Jetfloor Lo beams parallel & perpendicular to wall
			EPS $\lambda = 0.038$
<b>Description:</b>	<b>Ground floor parallel / perpendicular jet floor lo</b>		
<b>Reference:</b>	E5	CLT building system	



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.180 / 0.177</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.886 / 0.881</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
 The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24) Jet floor = 0.15 (0.12 to 0.18) W/m<sup>2</sup>.K. +/- 20%** following the present guidance from B. Anderson, BRE  
 In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
 Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
 and with reference to the following publications:  
**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

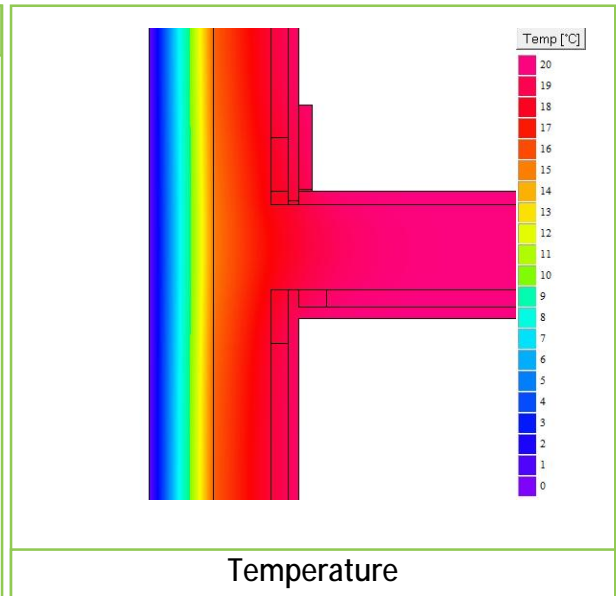
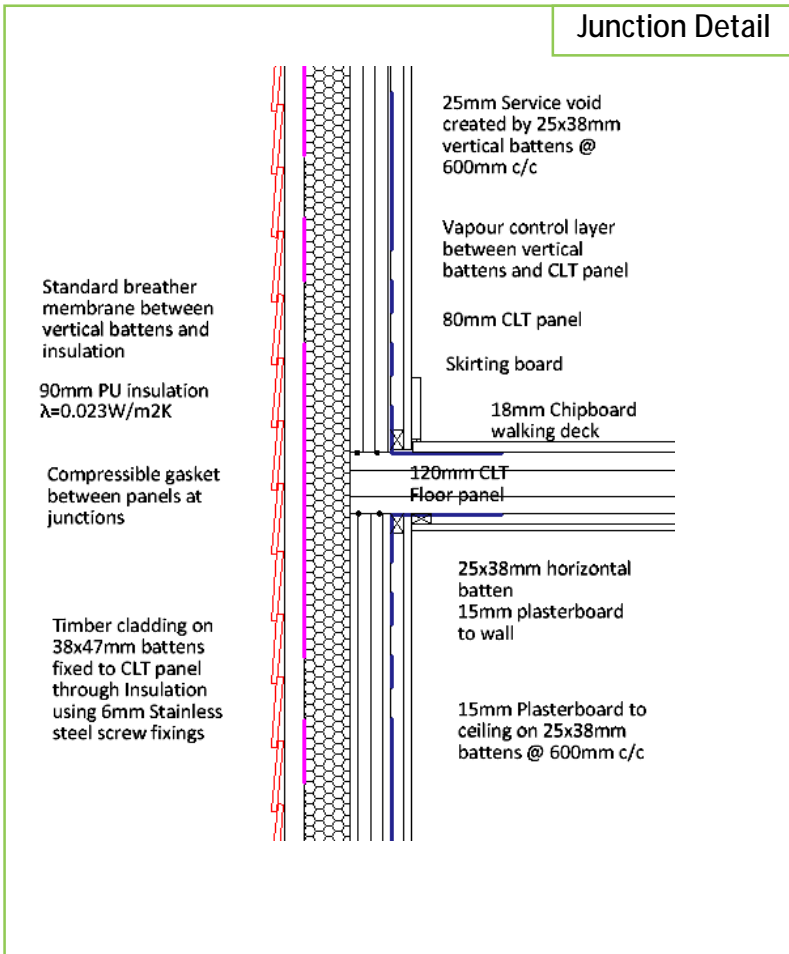


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Intermediate floor	120mm CLT, plasterboard on 25mm service void
		18mm Chipboard walking surface
<b>Description:</b>	<b>Intermediate floor dwelling</b>	
<b>Reference:</b>	E6	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>-0.003</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.961</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
and with reference to the following publications:  
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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

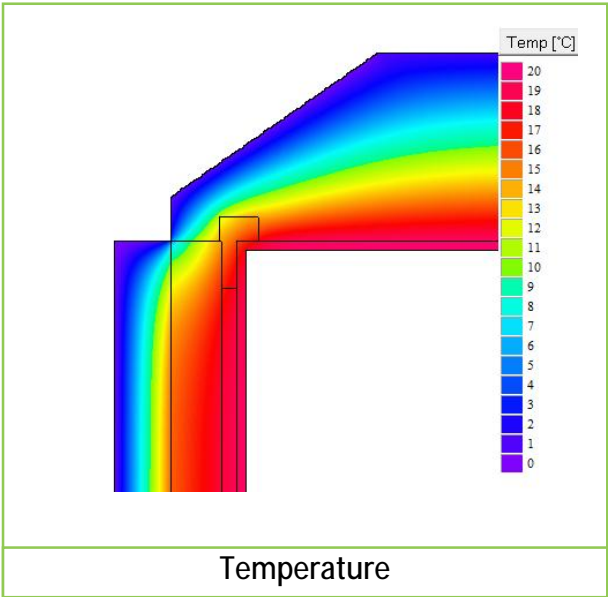
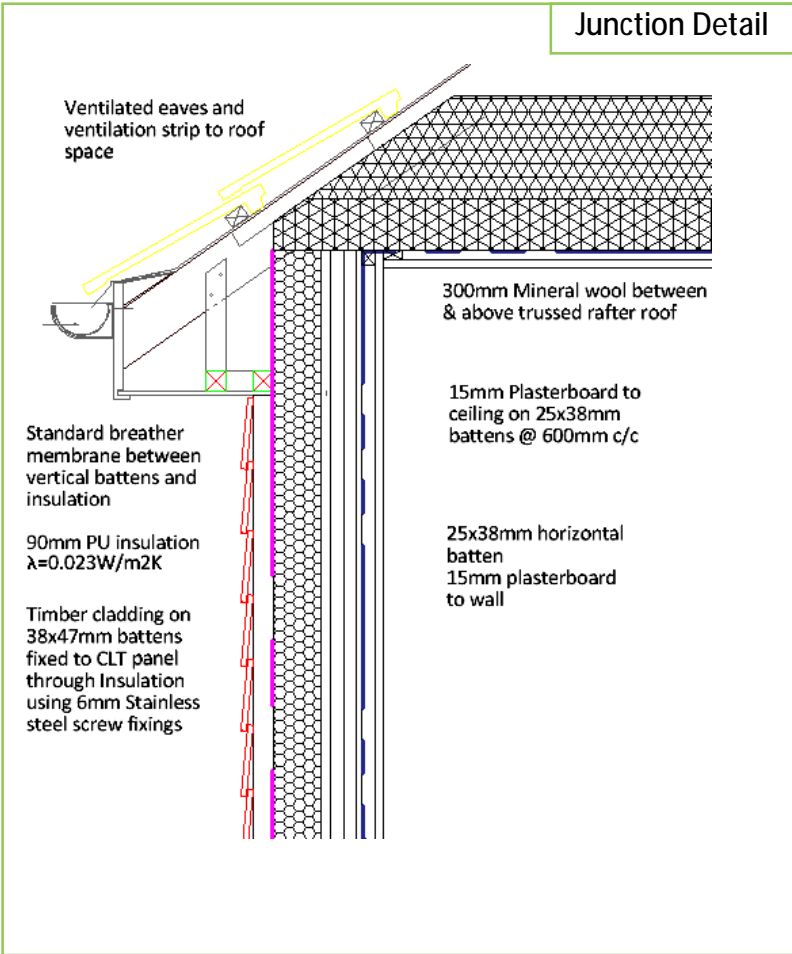


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Trussed rafter roof	300mm of mineral wool, $\lambda = 0.04$
<b>Description:</b>	<b>Eaves insulation @ ceiling trussed rafters</b>	
<b>Reference:</b>	E10	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.083</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.918</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24) Roof = 0.16 (0.13 to 0.19) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
and with reference to the following publications:  
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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

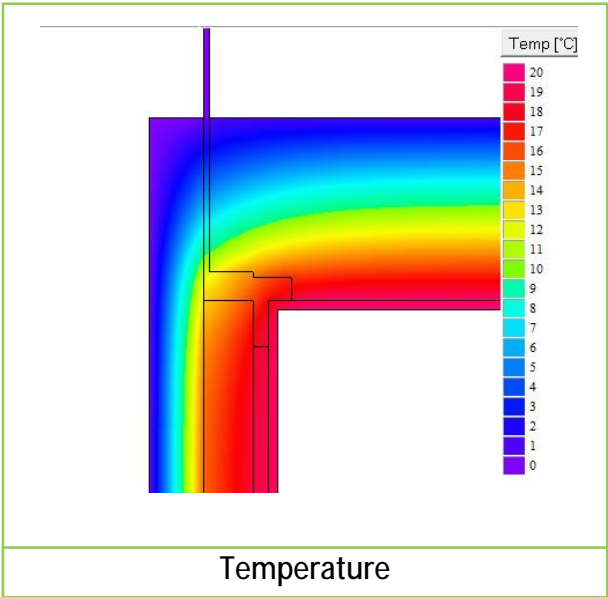
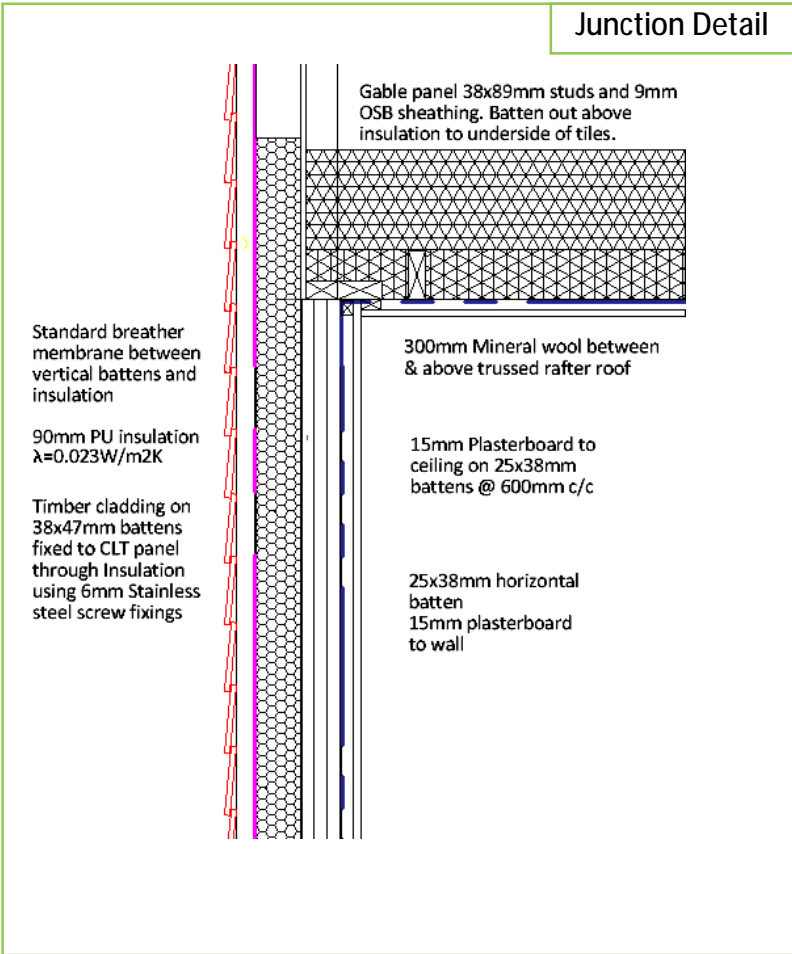


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Trussed rafter roof	300mm of mineral wool, $\lambda = 0.04$
<b>Description:</b>	<b>Gable insulation @ ceiling trussed rafters</b>	
<b>Reference:</b>	E12	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.035</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.931</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
 The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24) Roof = 0.16 (0.13 to 0.19) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
 In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
 Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
 and with reference to the following publications:  
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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

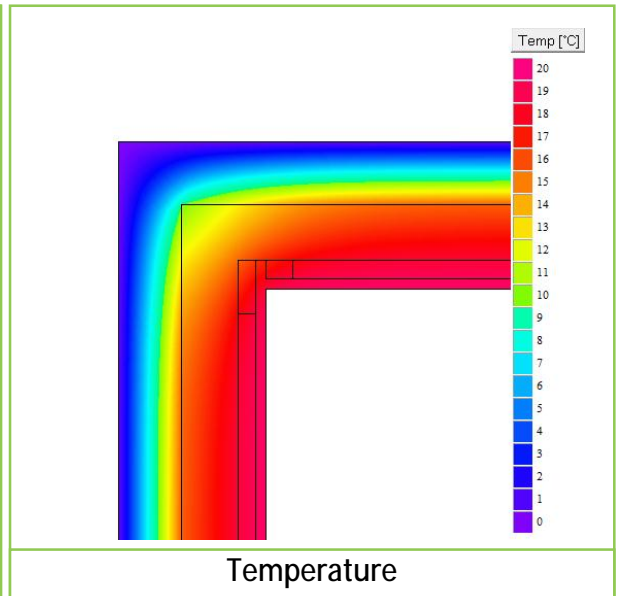
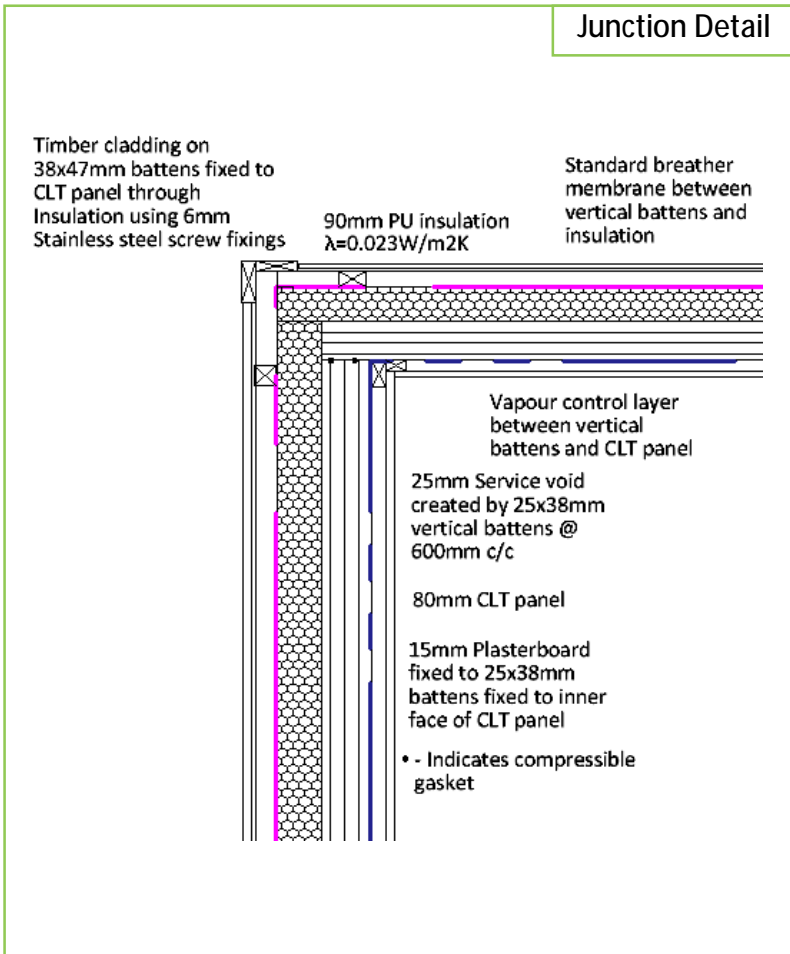


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Web: [www.storaenso.com/buildingandliving](http://www.storaenso.com/buildingandliving)

<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external , 25mm service void internal
	External Wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external , 25mm service void internal
<b>Description:</b>	<b>External corner</b>	
<b>Reference:</b>	E16	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.047</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.898</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

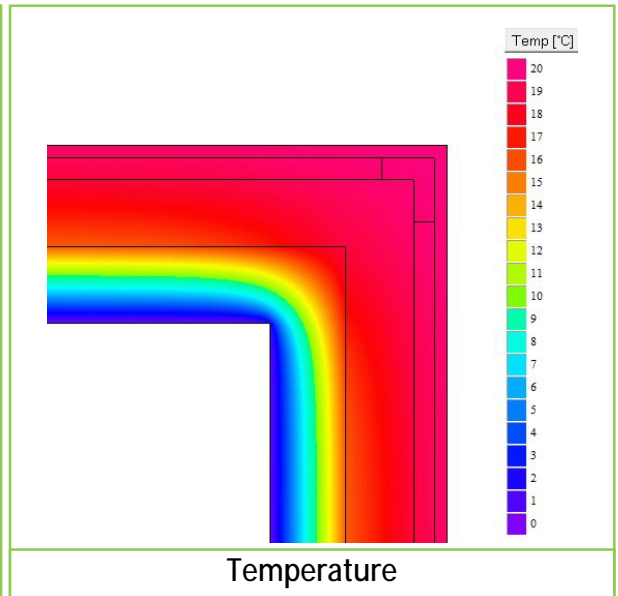
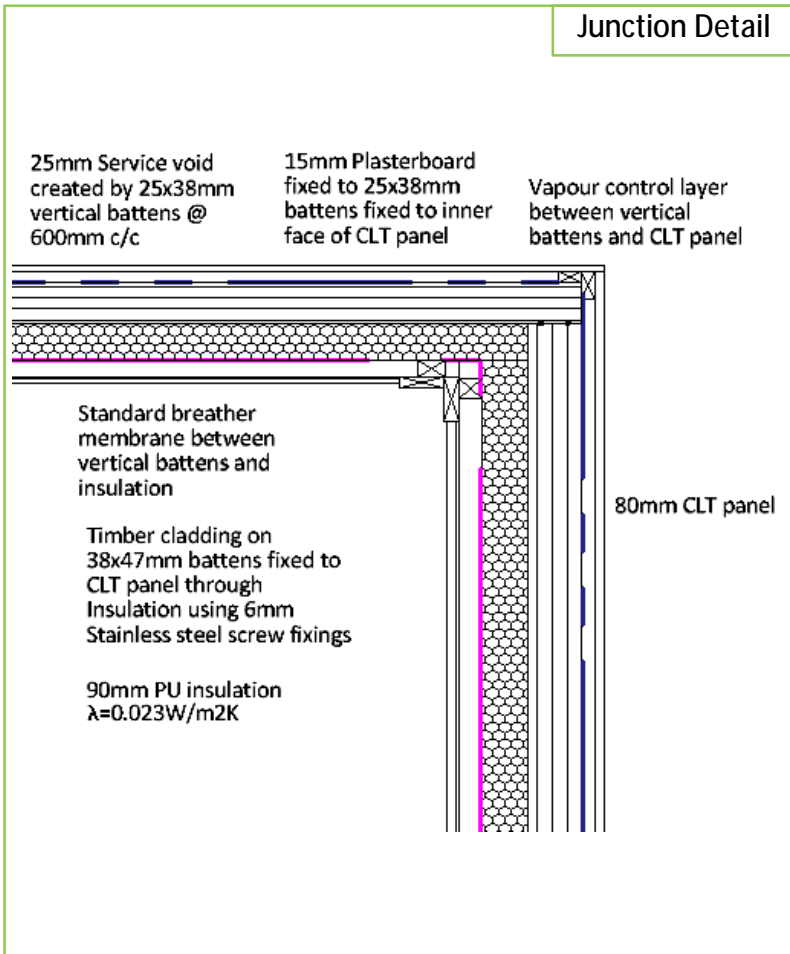


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external , 25mm service void internal
	External Wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external , 25mm service void internal
<b>Description:</b>	<b>Inverted corner</b>	
<b>Reference:</b>	E17	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>-0.069</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.978</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24)** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
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and with reference to the following publications:  
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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

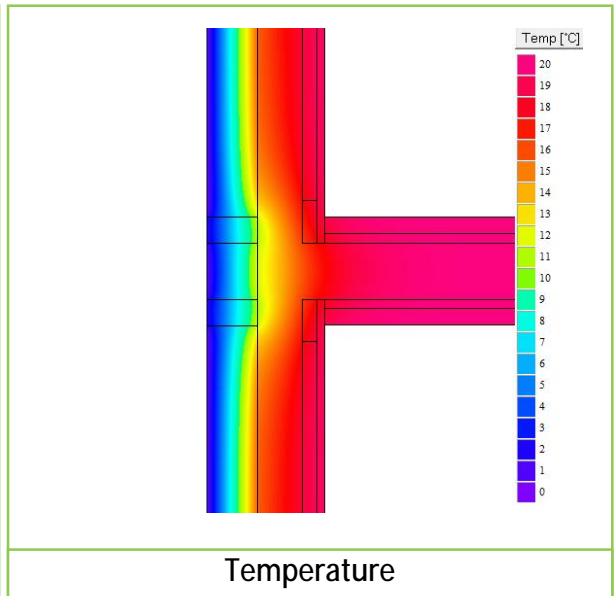
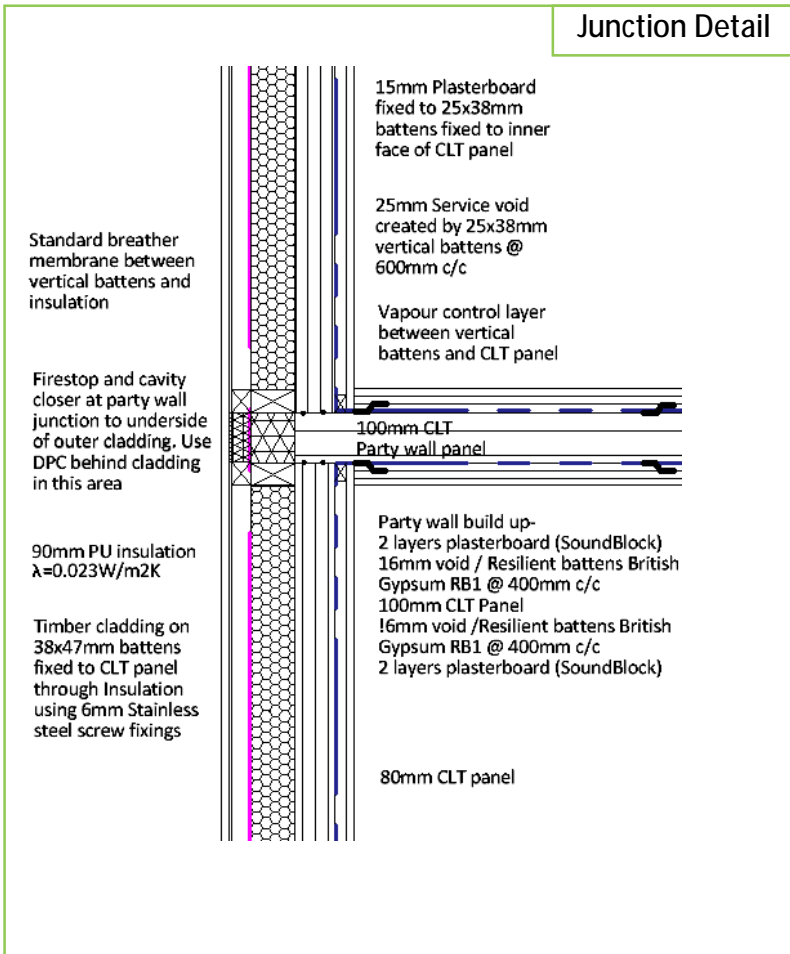


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external, 25mm service void internal
	Party wall	100mm CLT panel Resilient Batten & 2 layer of plasterboard
<b>Description:</b>	<b>Party wall external wall Single skin</b>	
<b>Reference:</b>	E18	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.041</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.963</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24) Party Wall = 0.00** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
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**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

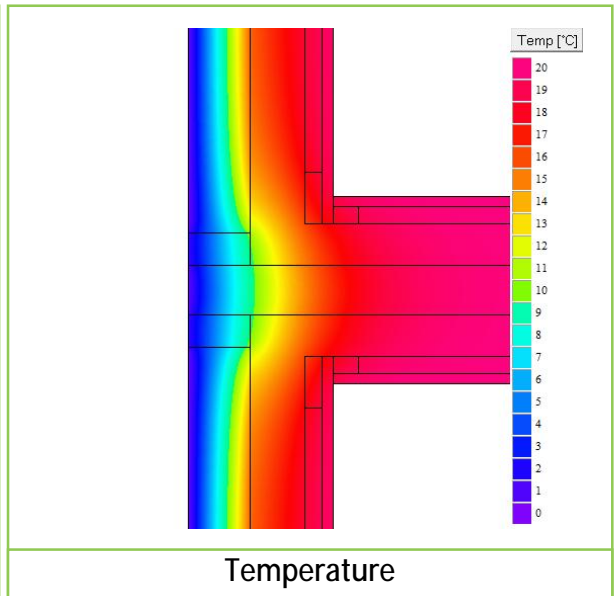
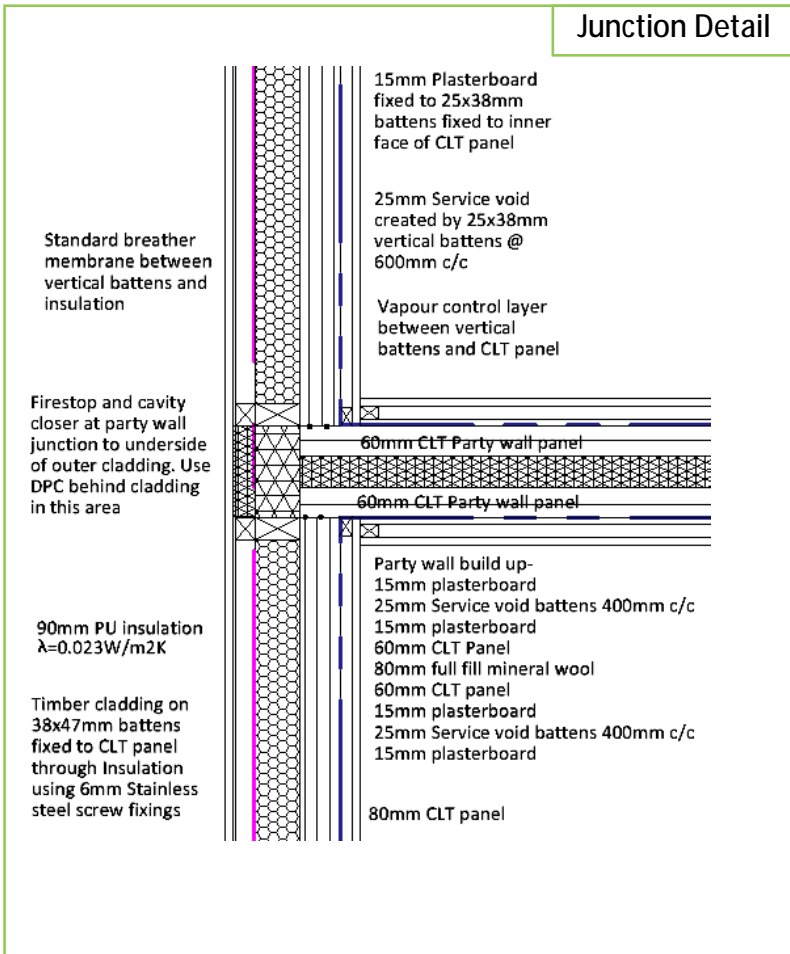


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Web: [www.storaenso.com/buildingandliving](http://www.storaenso.com/buildingandliving)

<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	External wall	80mm CLT panel 90mm Celotex GA3000, $\lambda = 0.023$
		38mm ventilated cavity external , 25mm service void internal
	Party wall	2 x 60mm CLT panel Full fill insulation & 25mm service & plasterboard
<b>Description:</b>	<b>Party wall external wall double skin</b>	
<b>Reference:</b>	E18	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.045</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.939</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **External Wall = 0.20 (0.16 to 0.24) Party Wall = 0.00** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
and with reference to the following publications:  
**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

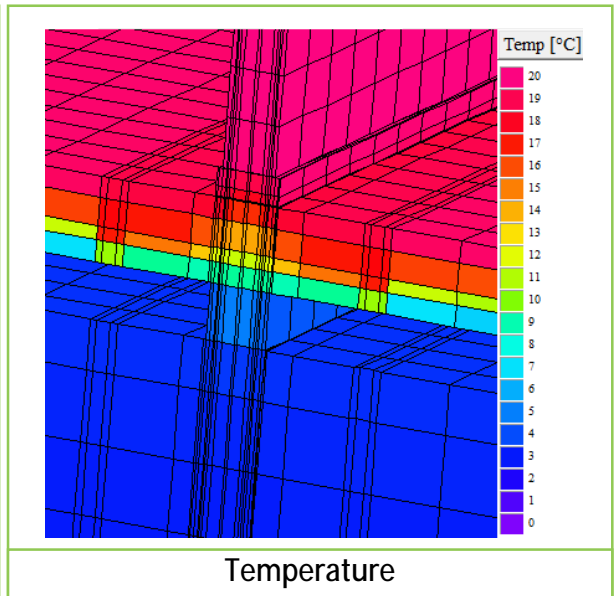
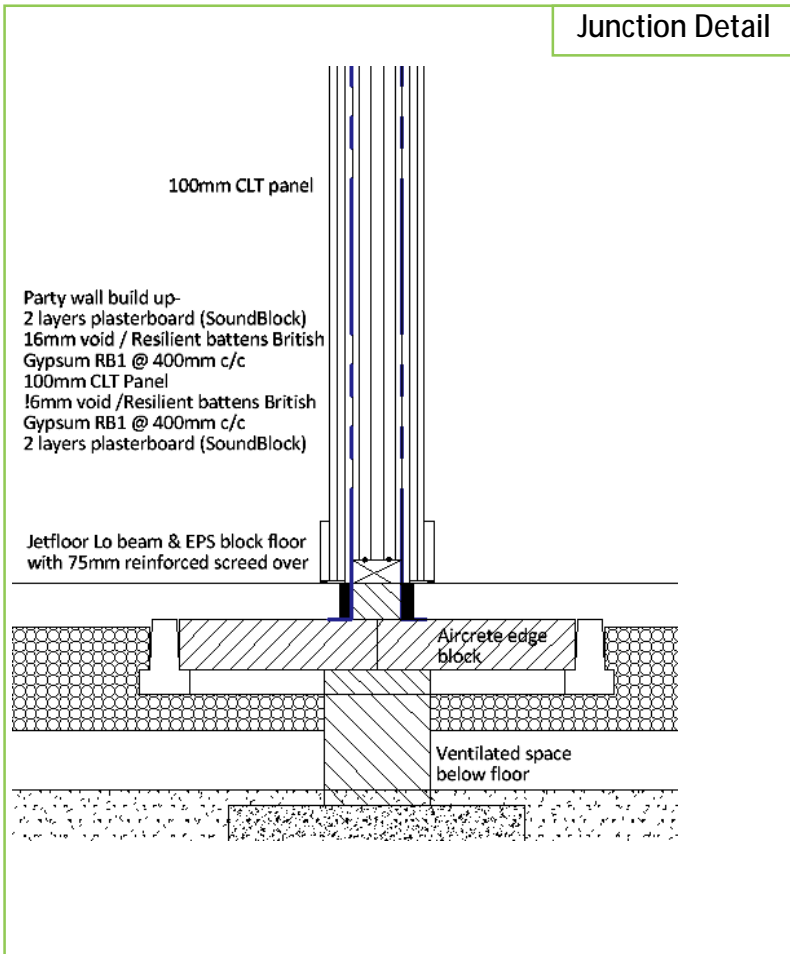


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	100mm CLT panel Resilient Batten &
		2 layer of plasterboard
	Ground floor	Jetfloor Lo beams parallel & perpendicular to wall
		EPS $\lambda = 0.038$
<b>Description:</b>	<b>Party wall Foot single skin</b>	
<b>Reference:</b>	P1	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.118 / 0.059</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.909 / 0.888</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
 The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party wall = 0.00 Jet floor = 0.15 (0.12 to 0.18) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
 In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.  
 Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
 and with reference to the following publications:  
**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

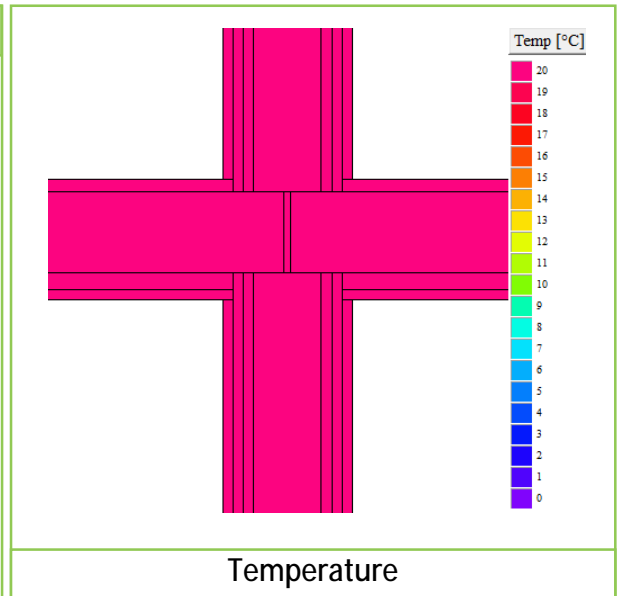
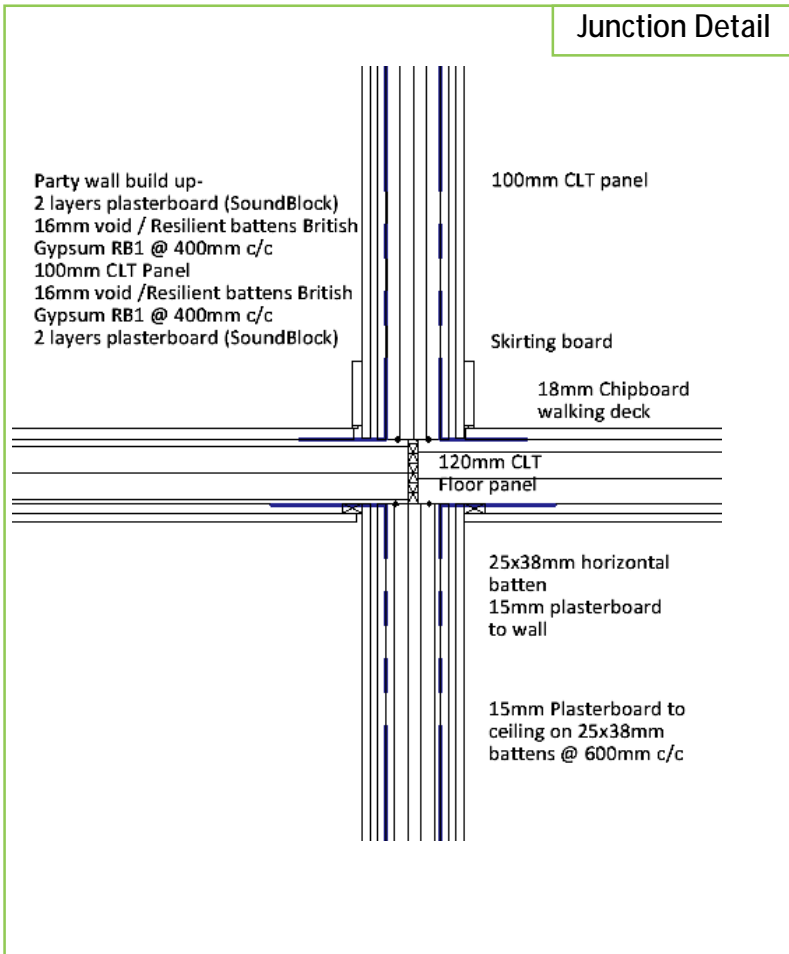


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	100mm CLT panel Resilient Batten &
		2 layer of plasterboard
	Intermediate floor	120mm CLT, plasterboard on 25mm service void
		18mm Chipboard walking surface
<b>Description:</b>	<b>Party wall intermediate floor dwelling single skin</b>	
<b>Reference:</b>	P2	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.007</b>

<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>1.000</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.

The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party Wall = 0.00** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE

In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.

Calculations have been performed in accordance with:

**EN ISO 10211\_2007** (British Standards)

**IP 1/06 & BR497** (BRE Press)

and with reference to the following publications:

**EN ISO 6946** (British Standards)

**BR443** (BRE Press)

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

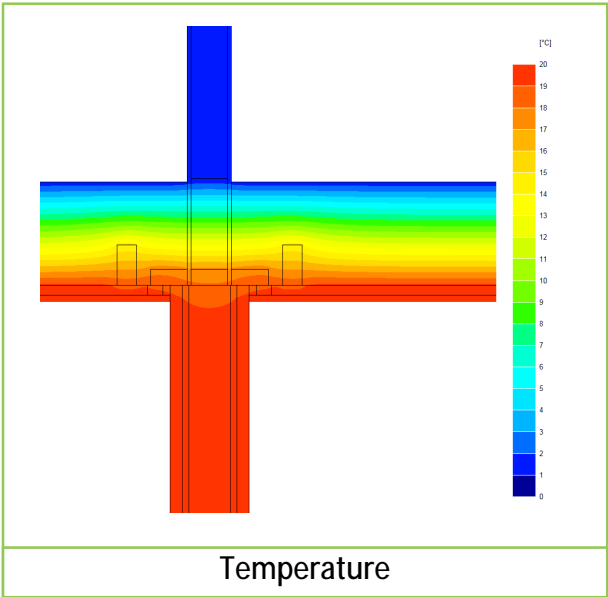
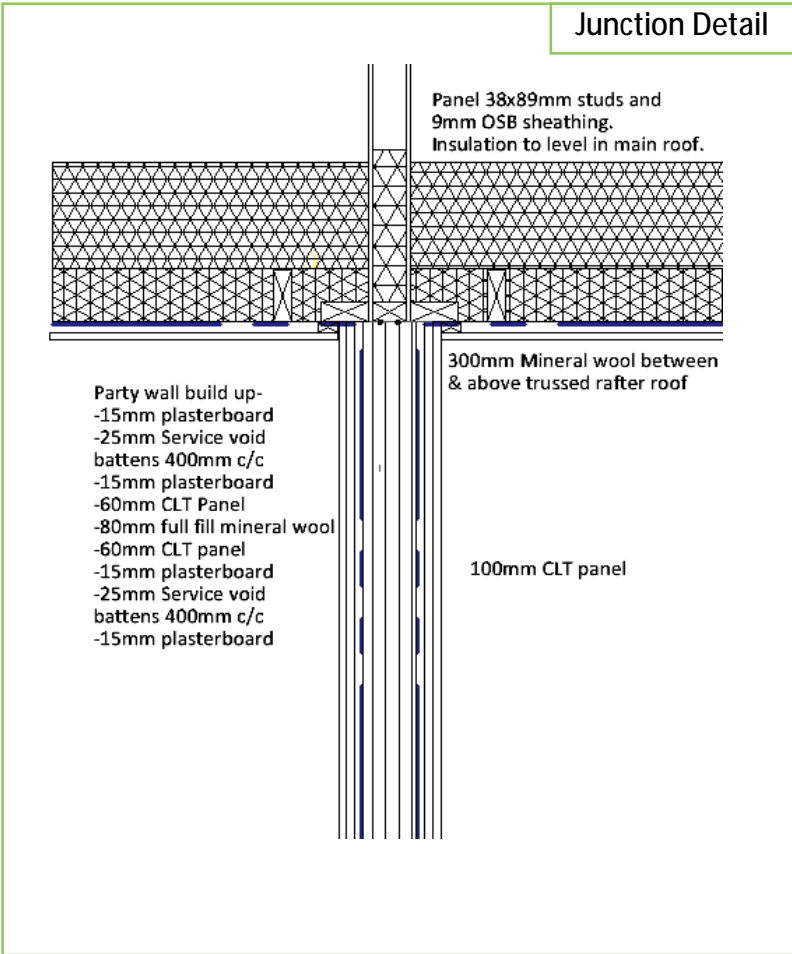


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	100mm CLT panel Resilient Batten &
		2 layer of plasterboard
	Trussed rafter roof	300mm of mineral wool , $\lambda = 0.04$
<b>Description:</b>	<b>Party wall Head single skin</b>	
<b>Reference:</b>	P4	CLT building system



Linear Thermal Transmittance W/m.K	
$\Psi =$	<b>0.021</b>

Temperature Factor <sup>3</sup> for Humidity and Mould	
$f =$	<b>0.971</b>

Independently calculated by C4Ci Ltd. : Matthew Wright MA Physics (Oxon) PGCE

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
 The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party Wall = 0.00 Roof = 0.16 (0.13 to 0.19) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
 In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
 Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
 and with reference to the following publications:  
**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

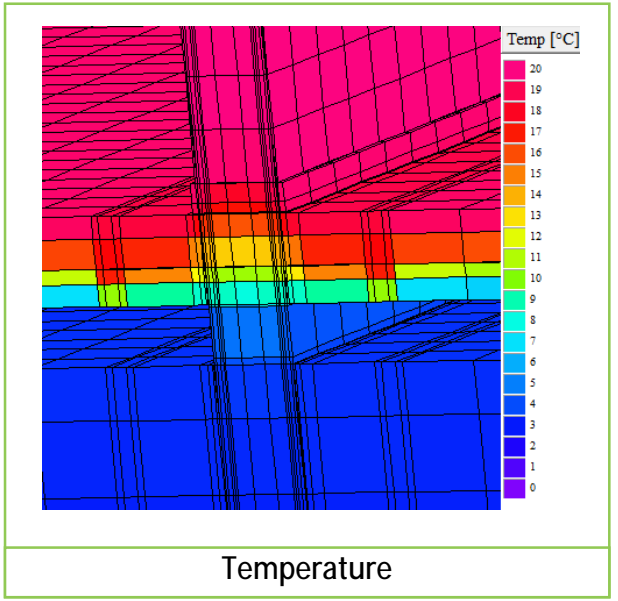
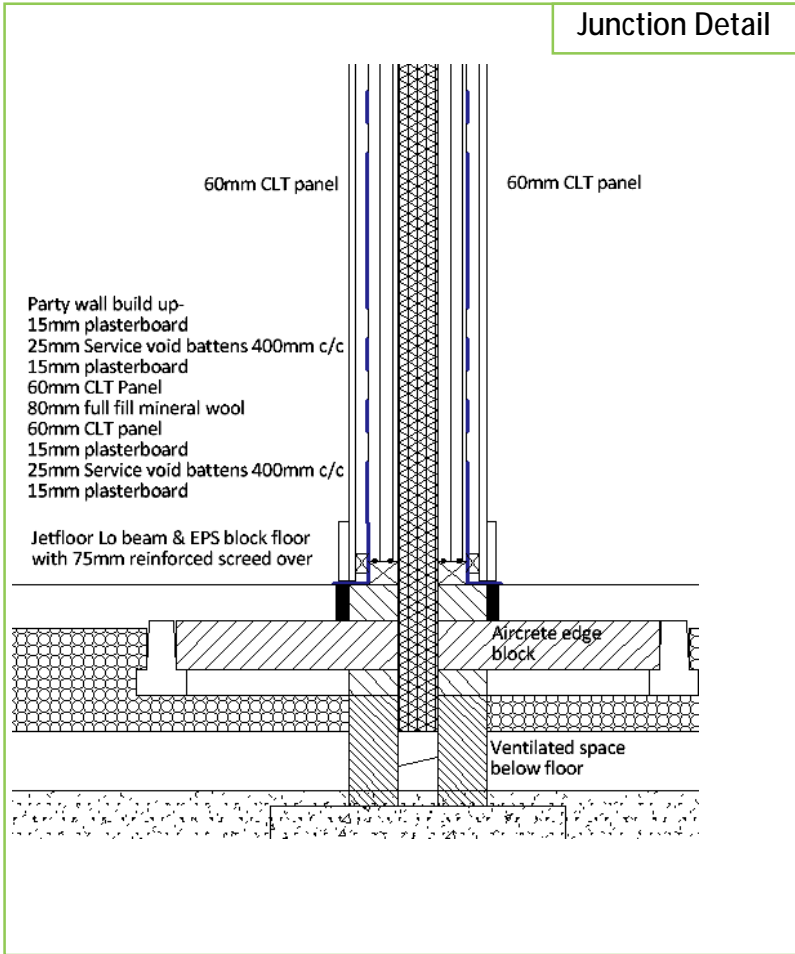


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	2 x 60mm CLT panel Full fill insulation & 25mm service & plasterboard
	Ground floor	Jetfloor Lo beams parallel & perpendicular to wall
		EPS $\lambda = 0.038$
<b>Description:</b>	<b>Party wall Foot double skin</b>	
<b>Reference:</b>	P1	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.116 / 0.045</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.977 / 0.916</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
 The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party wall = 0.00 Jet floor = 0.15 (0.12 to 0.18) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
 In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
 Calculations have been performed in accordance with:  
**EN ISO 10211\_2007 (British Standards)**  
**IP 1/06 & BR497 (BRE Press)**  
 and with reference to the following publications:  
**EN ISO 6946 (British Standards)**  
**BR443 (BRE Press)**

# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

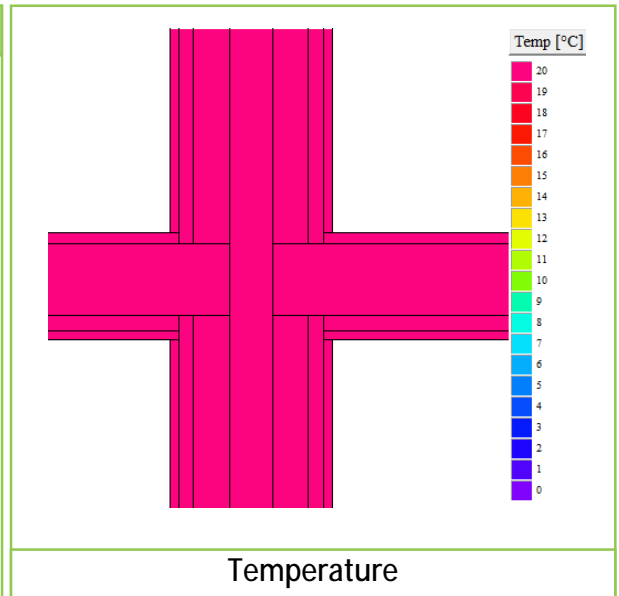
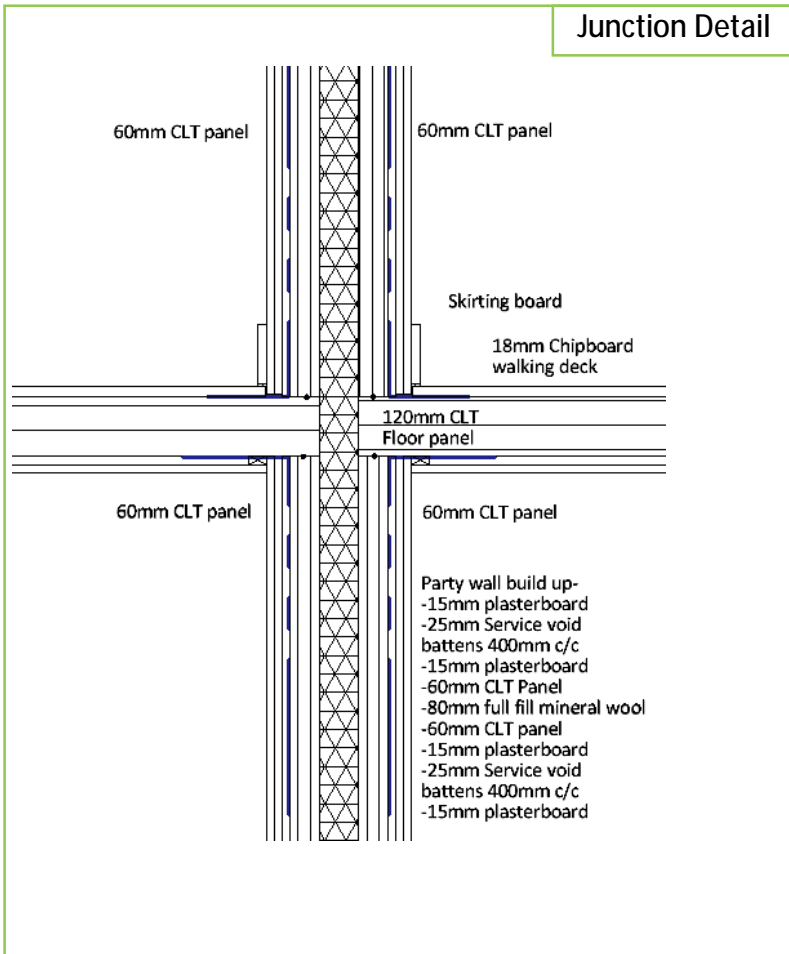


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	2 x 60mm CLT panel Full fill insulation &
		25mm service & plasterboard
	Intermediate floor	120mm CLT, plasterboard on 25mm service void
		18mm Chipboard walking surface
<b>Description:</b>	<b>Party wall intermediate floor dwelling double skin</b>	
<b>Reference:</b>	P2	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.003</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>1.000</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.

The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party Wall = 0.00** W/m<sup>2</sup>.K. +/- 20% following the present guidance from B. Anderson, BRE

In dwellings, a temperature factor  $f$  that is >0.75 would avoid the risk of mould growth.

Calculations have been performed in accordance with:

**EN ISO 10211\_2007** (British Standards)

**IP 1/06 & BR497** (BRE Press)

and with reference to the following publications:

**EN ISO 6946** (British Standards)

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# Linear Thermal Transmittance ( $\Psi$ ) and Temperature Factor ( $f$ )

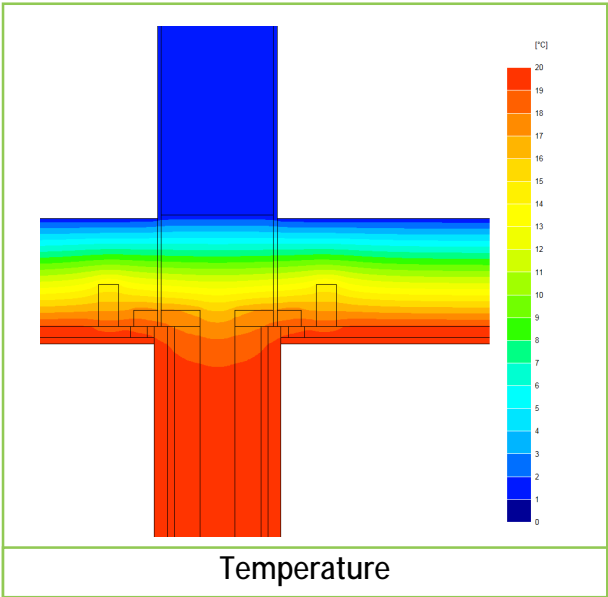
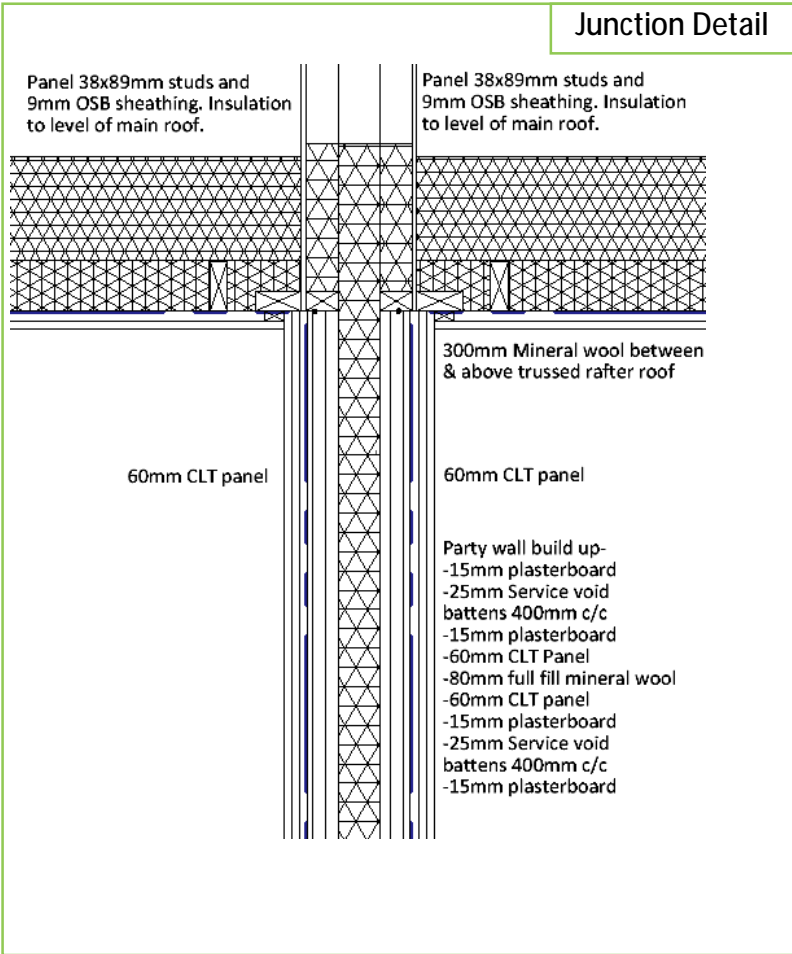


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<b>Construction Specification used for Thermal Model:</b> <i>(see detail below and notes for range of applicability)</i>	Party Wall	2 x 60mm CLT panel Full fill insulation &
		25mm service & plasterboard
	Trussed rafter roof	300mm of mineral wool , $\lambda = 0.04$
<b>Description:</b>	<b>Party wall Head double skin</b>	
<b>Reference:</b>	P4	CLT building system



<b>Linear Thermal Transmittance</b>	
<b>W/m.K</b>	
<b><math>\Psi =</math></b>	<b>0.028</b>
<b>Temperature Factor<sup>3</sup> for Humidity and Mould</b>	
<b><math>f =</math></b>	<b>0.967</b>

Independently calculated by C4Ci Ltd. : Andrew Dunning BSc MSc MIWSc DIC

Our ref: 1538

**Notes: -.**

The  $\Psi$  and  $f$  quoted are calculated for the detail drawn and described above.  
The  $\Psi$  and  $f$  quoted are considered valid for U-value(s) **Party Wall = 0.00 Roof = 0.16 (0.13 to 0.19) W/m<sup>2</sup>.K.** +/- 20% following the present guidance from B. Anderson, BRE  
In dwellings, a temperature factor  $f$  that is  $>0.75$  would avoid the risk of mould growth.  
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